

# SOUTHERN PACIFIC COMPANY



## SACRAMENTO DIVISION TIMETABLE

# 169

**EFFECTIVE SUNDAY, JUNE 2, 1946  
AT 12:01 A. M.  
PACIFIC STANDARD TIME**

**FOR THE GOVERNMENT AND INFORMATION  
OF EMPLOYEES ONLY**

### TERMINAL SUPERINTENDENT

F. PURDY.....Sacramento

### TRAINMASTERS

E. C. WATSON.....Roseville  
G. P. McNAMARA.....Sacramento  
T. W. BERNARD.....Sacramento  
R. B. GIBSON.....Roseville

### ASSISTANT TRAINMASTERS

T. E. BILLINGSLY.....Truckee  
R. A. WARDLE.....Roseville

### ASSISTANT TRAINMASTER— DIVISION EXAMINER

G. F. RUPERT.....Sacramento

### ROAD FOREMEN OF ENGINES

W. M. BRENNAN.....Roseville  
F. A. DENNEY, JR.....Roseville

### ENGINEMEN INSTRUCTORS

D. J. GAUTIER.....Roseville  
H. E. PECK.....Sacramento

### CHIEF TRAIN DISPATCHER

A. J. LEBOURVEAU.....Sacramento

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### T. F. CUSTER

Assistant Superintendent, Sacramento

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J. W. CORBETT,  
*General Manager.*

R. E. HALLAWELL,  
H. R. HUGHES,  
*Assistant General Managers.*

G. C. BAKER,  
*General Superintendent of Transportation.*

C. H. GRANT,  
*Superintendent of Transportation.*

M. L. JENNINGS,  
*Superintendent.*

## HOSPITAL DEPARTMENT SURGEONS

LOCATION	NAME	TITLE
San Francisco.....	Dr. W. W. Washburn.....	Chief Surgeon
Sacramento.....	Dr. A. M. Henderson.....	Division Surgeon
Sacramento.....	Dr. W. W. Cress.....	Division Surgeon
Sacramento.....	Dr. A. F. Wallace.....	District Physician and Surgeon
Sacramento.....	Dr. Manuel L. Azevedo.....	District Physician and Surgeon
Sacramento.....	Dr. W. N. Becker.....	District Physician and Surgeon
Sacramento.....	Dr. J. Roy Jones.....	Oculist and Aurist
Roseville.....	Dr. L. E. Jones.....	District Physician and Surgeon
Roseville.....	Dr. J. F. McAnnally.....	Asst. Dist. Physician and Surgeon
Roseville.....	Dr. C. Angella.....	Asst. Dist. Physician and Surgeon
Loomis.....	Dr. F. D. Barnes.....	District Physician and Surgeon
Newcastle.....	Dr. L. B. Barnes.....	District Physician and Surgeon
Auburn.....	Dr. J. A. Russell.....	District Physician and Surgeon
Colfax.....	Dr. F. Lynn Smith.....	District Physician and Surgeon
Colfax.....	Dr. I. R. Kilgore.....	Asst. Dist. Physician and Surgeon
Truckee.....	Dr. J. H. Bernard.....	District Physician and Surgeon
Reno.....	Dr. Rodney E. Wyman.....	Division Surgeon
Reno.....	Dr. M. B. Woodward.....	District Physician and Surgeon
Reno.....	Dr. John A. Fuller.....	Oculist and Aurist
Lincoln.....	Dr. A. W. McArthur.....	District Physician and Surgeon
Marysville.....	Dr. P. B. Hoffman.....	District Physician and Surgeon
Marysville.....	Dr. John A. Duncan.....	Asst. Dist. Physician and Surgeon
Marysville.....	Dr. Harold Simons.....	Oculist and Aurist
Live Oak.....	Dr. I. W. Higgins.....	District Physician and Surgeon
Gridley.....	Dr. W. S. Lavy.....	District Physician and Surgeon
Chico.....	Dr. N. T. Enloe.....	District Physician and Surgeon
Chico.....	Dr. D. H. Moulton.....	District Physician and Surgeon
Stirling City.....	Dr. Fred D. Baty.....	District Physician and Surgeon
Los Molinos.....	Dr. James L. Faulkner.....	District Physician and Surgeon
Gerber.....	Dr. R. G. Frey.....	District Physician and Surgeon
Davis.....	Dr. Thomas E. Cooper.....	Emergency Surgeon
Davis.....	Dr. Leo A. Cronan.....	Emergency Surgeon
Woodland.....	Dr. O. C. Railsback.....	District Physician and Surgeon
Arbuckle.....	Dr. H. S. Powis.....	District Physician and Surgeon
Williams.....	Dr. Charles F. Keith.....	District Physician and Surgeon
Colusa.....	Dr. John W. Scott.....	District Physician and Surgeon
Willows.....	Dr. Fred M. Lawson.....	District Physician and Surgeon
Orland.....	Dr. S. E. Coffey.....	District Physician and Surgeon
Corning.....	Dr. H. H. Beck.....	District Physician and Surgeon
Oroville.....	Dr. E. A. Kusel.....	District Physician and Surgeon
Fair Oaks.....	Dr. G. M. Kennedy.....	Emergency Surgeon
Folsom.....	Dr. Kenneth E. Overholt.....	District Physician and Surgeon
Placerville.....	Dr. W. A. Reckers.....	District Physician and Surgeon
Hamilton.....	Dr. Mary E. Poket.....	Emergency Surgeon
Yuba City.....	Dr. N. M. Loomis.....	District Physician and Surgeon
Yuba City.....	Dr. J. A. Duncan.....	Asst. Dist. Physician and Surgeon
Walnut Grove.....	Dr. V. W. Pallesen.....	District Physician and Surgeon
Isleton.....	Dr. Godfrey Steinert.....	District Physician and Surgeon
Lake Tahoe.....	Dr. C. B. Pederson.....	Emergency Surgeon

**Note.**—Emergency Surgeons should only be summoned for temporary treatment when prompt attention is required and when patients cannot be sent to, or await arrival of, Division or District Surgeon.

### HOSPITALS

GENERAL.....	SAN FRANCISCO
EMERGENCY.....	SACRAMENTO
EMERGENCY.....	ROSEVILLE
EMERGENCY.....	GERBER
EMERGENCY.....	SPARKS

SACRAMENTO SUBDIVISION

EASTWARD

Capacity of sidings in car lengths	EASTWARD								Mile Post Location	Timetable No. 169 June 2, 1946	Distance from Sacramento
	SECOND CLASS	FIRST CLASS									
	442 C. C. M. Leave Daily	24 Challenger Leave Daily	22 Pacific Limited Leave Daily	102 Streamliner City of San Francisco Leave ★See Note	28 San Francisco Overland Limited Leave Daily	202 Passenger Leave Daily	26 Passenger Leave Daily				
Sacramento yard	BKWOTIP	AM 1.00	PM 11.40	PM 9.50	PM 6.45	PM 2.20	AM 10.00	AM 12.40	89.0 88.9	TO-R SACRAMENTO	0.0
	BKWOTP								89.8	TO-R SACRAMENTO (12th St.)	0.9
	M 87 IYP		11.52	10.02	6.57	2.32	10.12	12.52	91.8	2.0 ELVAS	2.9
	BKP		PM 11.58	10.08	7.01	2.36	10.18	12.58	94.9	3.1 BENALI	6.0
Roseville yard	BKP	AM 12.06	10.16	7.08	7.08	2.44	10.26	1.06	102.8	7.9 TO-R ANTELOPE	13.9
	BKWOTYP	1.40 AM	s 12.15 AM	s 10.25 PM	7.15 PM	s 2.52 PM	s 10.35 AM	s 1.15 AM	106.6	3.8 TO-R ROSEVILLE	17.7
	Arrive Daily		Arrive Daily	Arrive Daily	Arrive ★See Note	Arrive Daily	Arrive Daily	Arrive Daily		(17.7)	
	(0.40) 26.55		(0.35) 30.34	(0.35) 30.34	(0.30) 35.40	(0.32) 33.19	(0.35) 30.34	(0.35) 30.34		.....Time over District..... .....Average Speed per Hour.....	

★Note—No. 102 leave and arrive 2nd, 5th, 8th, 11th, 14th, 17th, 20th, 23rd, 26th and 29th of each month.

RULES 86, 87 and 93. Third-class trains, extra trains and engines must clear the time of No. 102 not less than 15 minutes, except where Rule D-251 applies.

EASTWARD

WESTWARD

Capacity of sidings in car lengths	EASTWARD			WESTWARD		
	THIRD CLASS	Mile Post Location	Timetable No. 169 June 2, 1946	Distance from Placerville	THIRD CLASS	
	518 Local Freight Leave Daily Ex. Sunday				519 Local Freight Arrive Daily Ex. Monday	
Sacramento yard WIP	AM 5.50	94.7	R BRIGHTON	54.0	AM 11.50	
23	5.55	95.9	1.2 PERKINS	52.8	11.40	
9	6.05	98.9	3.0 MAYHEW	49.8	11.25	
23 Y	6.20	101.6	2.7 MILLS	47.1	11.15	
28 P	6.50	104.4	2.8 R CITRUS	44.3	11.00	
9	7.33	110.1	5.7 NATOMA	38.6	10.00	
Yard Limits Y	8.40	111.1	1.0 R FOLSOM JCT.	37.6	9.55	
6	9.10	118.0	6.9 WHITE ROCK	30.7	9.10	
11	AM 9.50	126.1	8.1 LATROBE	22.6	8.35	
25	PM 12.01	142.7	16.6 EL DORADO	6.0	7.20	
18 P	12.30	145.0	2.3 TO DIAMOND SPRINGS	3.7	7.00	
Yard Limits BKWTP	1.00 PM	148.7	3.7 TO-R PLACERVILLE	0.0	6.30 AM	
	Arrive Daily Ex. Sunday		(54.0)		Leave Daily Ex. Monday	
	(7.10) 7.53		.....Time over District..... .....Average Speed per Hour.....		(5.20) 10.12	

Capacity of sidings in car lengths	EASTWARD			WESTWARD			
	Mile Post Location	Timetable No. 169 June 2, 1946	Distance from Fair Oaks	Capacity of sidings in car lengths	Mile Post Location	Timetable No. 169 June 2, 1946	Distance from Folsom
28 P	104.4	R CITRUS	1.9	Y	111.1	R FOLSOM JCT.	0.7
15 P	106.3	TO-R FAIR OAKS	0.0	WP	111.8	TO-R FOLSOM	0.0
		(1.9)				(0.7)	

SACRAMENTO SUBDIVISION

Mile Post Location		Timetable No. 169 June 2, 1946		Distance from Roseville		WESTWARD							
						FIRST CLASS							
						25	21	23	101	27	201		
		Fast Mail	Pacific Limited	Challenger	Streamliner City of San Francisco	San Francisco Overland Limited	Passenger						
		Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily ★ See Note	Arrive Daily	Arrive Daily						
89.0	TO-R SACRAMENTO	17.7	AM	AM	AM	AM	AM						
88.9	0.9	s	1.55	s	3.45	s	4.25	s	6.55	s	11.30	s	7.10
89.8	TO-R SACRAMENTO (12th St.)	16.8											
	2.0												
91.8	ELVAS	14.8	1.43	3.33	4.13	6.43	11.19	6.58					
	3.1												
94.9	BENALI	11.7	1.37	3.27	4.07	6.39	11.15	6.50					
	7.9												
102.8	TO-R ANTELOPE	3.8	1.29	3.19	3.59	6.34	11.07	6.40					
	3.8												
106.6	TO-R ROSEVILLE	0.0	1.20	3.10	3.50	6.25	10.58	6.30					
			AM	AM	AM	AM	AM	PM					
(17.7)			Leave Daily	Leave Daily	Leave Daily	Leave Daily ★ See Note	Leave Daily	Leave Daily					
.....Time over District.....			(0.35)	(0.35)	(0.35)	(0.30)	(0.32)	(0.40)					
.....Average Speed per Hour.....			30.34	30.34	30.34	35.40	33.19	26.55					

★Note—No. 101 leave and arrive 1st, 4th, 7th, 10th, 13th, 16th, 19th, 22nd, 25th, 28th and 31st of each month.

No. 201 stop on flag at Swanston.

RULES 86, 87 and 93. Third-class trains, extra trains and engines must clear the time of No. 101 not less than 15 minutes, except where Rule D-251 applies.

OUTBOUND, VIA ELVAS TO BRIGHTON (see note)					INBOUND, VIA ELVAS FROM BRIGHTON (see note)						
Capacity of sidings in car lengths	THIRD CLASS	FIRST CLASS			Mile Post Location	Timetable No. 169 June 2, 1946	Distance from Brighton	FIRST CLASS			THIRD CLASS
	518	60	54	262				59	53	261	519
	Local Freight	West Coast	Sacramento Daylight	Passenger				West Coast	Sacramento Daylight	Passenger	Local Freight
	Leave Daily Ex. Sunday	Leave Daily	Leave Daily	Leave Daily			Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily Ex. Monday	
Sacramento yard	BKWOITP	PM 7.45	AM 8.45	AM 7.30	89.0	TO-R SACRAMENTO	5.9	AM 8.30	PM 7.25	PM 9.00	
						0.9					
	BKWOTP	AM 5.30			89.8	TO-R SACRAMENTO (12th St.)	5.0				PM 12.15
						2.0					
	M 87 IYP	5.40	7.58	8.55	7.40	91.8	ELVAS	3.0	8.17	7.15	8.50
	5.50	8.05	9.00	7.45	136.2	3.0		8.10	7.10	8.45	11.50 AM
128 WIP	AM	PM	AM	AM	133.2	R BRIGHTON	0.0	AM	PM	PM	AM
	Arrive Daily Ex. Sunday	Arrive Daily	Arrive Daily	Arrive Daily		(5.9)		Leave Daily	Leave Daily	Leave Daily	Leave Daily Ex. Monday

Note—Trains moving from Brighton to Elvas are Eastward, and Elvas to Sacramento, Westward. Trains moving from Sacramento to Elvas are Eastward, and Elvas to Brighton, Westward.

Capacity of sidings in car lengths	EASTWARD	Timetable No. 169 June 2, 1946	WESTWARD
	Mile Post Location		Distance from Isleton
		Walnut Grove Branch	
		STATIONS	
Sacramento Yard BKWOITP	89.0	TO-R SACRAMENTO	33.2
	88.7	5.5	
52	94.2	DEL RIO	27.7
		3.3	
31	97.5	FREEPORT	24.4
		7.1	
58	104.6	HOOD JCT.	17.3
		3.3	
52	107.9	LAMBERT	14.0
		5.5	
Yard Limits WYP	113.4	TO WALNUT GROVE	8.5
		8.5	
Yard Limits YP	121.9	TO-R ISLETON	0.0
		(33.2)	

ADDITIONAL STATIONS			ADDITIONAL STATIONS		
NAME	Mile Post	Capacity	NAME	Mile Post	Capacity
Sacramento-Roseville line			Nagle	111.3	..
Swanston (Spur)	93.5	..	Fionellis	127.6	..
Planehaven	97.5	..	Swift	127.8	..
Walerga	99.4	..	Brola	128.1	..
Brighton-Sacramento line			Brandon	129.8	..
Hopfen (Spur)	134.6	20	Shrub (Spur)	130.3	3
Placerville Branch			Dugan	131.4	3
Ramona	95.5	..	Bullard	131.7	..
Brown	97.0	..	Bennett	134.0	..
Manlove	97.5	5	Shingle Springs	136.9	..
Alden	98.0	..	Apex	147.7	W
Boyd	100.3	..	Walnut Grove Branch		
Routier	100.7	..	Baths	91.8	..
Mathar	103.4	6	Pocket	96.4	..
Soudan	103.7	..	Moshor	100.9	..
Salsbury	105.2	..	Acacia	102.6	..
Nimbus	107.4	..	Rosebud	103.3	..
Alder Creek	108.3	..	Hood (on spur from Hood Jct.)	105.3	..
			Mofuba	111.2	..
			Locke	112.6	..

MOUNTAIN SUBDIVISION

EASTWARD

Capacity of sidings in car lengths	SECOND CLASS		FIRST CLASS					Mile Post Location	Timetable No. 169 June 2, 1946	Distance from Roseville
	606 Mixed	Leave Daily Ex. Sunday	22	102	28	26	24			
			Pacific Limited	Streamliner City of San Francisco	San Francisco Overland Limited	Passenger	Challenger			
			Leave Daily	Leave ★See Note	Leave Daily	Leave Daily	Leave Daily			
			PM 10.35	PM 7.15	PM 3.00	AM 1.30	AM 12.25	106.6		
Roseville yard	BKWOTYP									
	P					s 1.40		110.6		
Yard Limits	E 85 WP		f 11.02	7.36	3.22	s 2.06	12.50	120.2		
	E 76 WP		s 11.15	7.42	3.28	s 2.22	s 1.02	124.2		
	E 98 P		11.24	7.49	3.36	2.32	1.11	129.1		
	E 73 W		11.32	7.56	3.44	2.41	1.19	134.3		
Yard Limits	E 83 BKWYP		PM s 11.55	8.10	s 4.00	s 3.00 3.25	s 1.40	141.7		
	P					f 3.38		146.1 146.0		
	E 118 WOYP		AM 12.22	8.32	4.24	s 3.54	2.07	152.2		
	WP					f 4.07		156.8		
	M 98 P		12.44	8.49	4.44	f 4.20	2.29	160.7		
	M 96 WP		12.54	8.58	4.54	4.32	2.39	164.8		
Yard Limits	M 99 WITP		1.12	9.10	5.10	f 4.55	2.57	170.7 171.8		
	M 83 WP		1.28	9.23	5.24	f 5.15	3.13	177.9		
	P					f 5.23		180.3		
	M 65 WP		1.47	9.39	5.41	5.36	3.32	185.5		
	E 116 BKWITP		f 2.03	9.52	5.56	s 6.00	f 3.48	192.0 195.8 197.2		
	WP		2.23	10.10	6.15	6.22	4.08	202.9		
Yard Limits	E 102 BKWOYP		s 2.38	10.20	s 6.29	s 6.40 7.00	f 4.23	208.0		
	M 101 P		2.55	10.35	6.45	7.20	4.40	218.1		
	P					f 7.30		222.4		
	M 106 P		3.18	10.55	7.08	f 7.50	5.03	232.4		
Sparks Yard	P	PM 7.10	s 3.55	s 11.15	s 7.30	s 8.55	s 5.40	242.9		
	BKWOTYP	f 7.20 s 7.25 PM	s 4.05 AM	s 11.25 PM	s 7.40 PM	s 9.10 s 9.20 AM	s 5.50 AM	245.5 246.2		
		Arrive Daily Ex. Sunday	Arrive Daily	Arrive ★See Note	Arrive Daily	Arrive Daily	Arrive Daily			
		(0.15) 13.20	(5.30) 24.95	(4.10) 32.93	(4.40) 29.39	(7.50) 17.52	(5.25) 25.33			

STATIONS		Distance from Roseville
TO-R	ROSEVILLE	
	4.0 ROCKLIN	4.0
TO	9.6 NEWCASTLE	13.6
	4.0 AUBURN, NEVADA ST.	17.6
	4.9 BOWMAN	22.5
	5.2 EAST APPLEGATE	27.7
TO-R	7.4 COLFAX	35.1
	4.4 CAPE HORN	39.5
TO	6.2 GOLD RUN	45.7
	4.6 TOWLE	50.3
	3.9 MIDAS	54.2
	4.1 KNAPP	58.3
TO	5.9 EMIGRANT GAP	64.2
	6.1 CRYSTAL LAKE	70.3
	2.4 CISCO	72.7
	5.2 TROY	77.9
TO	6.5 NORDEN	84.4
	3.8 EDER	88.2
	5.7 STANFORD	93.9
TO-R	5.1 TRUCKEE	99.0
	10.1 HINTON	109.1
	4.3 FLORISTON	113.4
	10.0 VERDI	123.4
	10.5 RENO	133.9
	2.6 SPARKS (Psg. Sta.)	136.5
TO-R	0.7 SPARKS (Dsp. Off.)	137.2

★Note—No. 102 leave and arrive 2nd, 5th, 8th, 11th, 14th, 17th, 20th, 23rd, 26th and 29th of each month.

RULES 86, 87, and 93. First-class trains must clear the time of No. 102 not less than 10 minutes, and second-class trains, extra trains and engines must clear the time of No. 102 not less than 15 minutes, except where Rule D-251 applies.

No. 606 may run ahead of first-class trains from Reno.

ADDITIONAL FLAG STOPS TO RECEIVE OR DISCHARGE REVENUE PASSENGERS				
Train	At	Receive To (or Beyond)	Discharge From (or Beyond)	Frequency
22	Soda Springs	Ogden		Daily
24	Newcastle, Soda Springs			Daily
26	N. E. Mills, Dutch Flat, Soda Springs	Any Station	Any Station	Daily
26	Troy	Any Station	Any Station	Thursday
26	Eder	Any Station	Any Station	Tues. & Sat.
26	Andover	Any Station	Any Station	Sun. & Tues.

No. 26 exchange mail by locker at following stations: Rocklin, Newcastle, Auburn, Nevada St., New England Mills, Gold Run, Emigrant Gap, Soda Springs, Floriston, Verdi.

ADDITIONAL STATIONS No. 1 Track		
NAME	Mile Post	Capacity
Lawton	237.1	..
Mogul	235.7	..
Calvada	228.4	..
Mystic	225.4	..
Wickes	221.9	..
Andover Crossover	201.3	..
Andover	200.6	..
Eder Crossover	197.7	..
Summit	193.0	..
Soda Springs	190.7	..
Smart	173.3	..
Blue Canon	166.0	..
American	160.0	..
Alta	156.4	..
Dutch Flat	154.5	..
Magra	148.9	..
New England Mills	137.1	..
West Applegate	133.9	..
Clipper Gap	130.9	..

ADDITIONAL STATIONS No. 2 Track		
NAME	Mile Post	Capacity
Penryn, Lincoln Ave.	115.5	..
Clipper Gap	131.4	..
New England Mills	137.6	..
Magra	148.5	..
Dutch Flat	154.1	..
Alta	156.0	..
American	159.6	..
Blue Canon	166.6	..
Smart	173.3	..
Yuba Pass	176.1	..
Soda Springs	190.6	..
Eder Crossover	197.7	..
Andover	200.6	..
Andover Crossover	201.3	..
Boca	216.3	..
Wickes	221.5	..
Mystic	225.5	..
Calvada	228.5	..
Mogul	235.8	..
Lawton	237.1	..

# MOUNTAIN SUBDIVISION

Capacity of sidings in car lengths		Mile Post Location	Timetable No. 169 June 2, 1946		Distance from Sparks	WESTWARD									
						FIRST CLASS					SECOND CLASS				
						101	27	25	21	23					
Streamliner City of San Francisco	San Francisco Overland Limited	Fast Mail	Pacific Limited	Challenger						Mixed					
Arrive ★See Note	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily						Arrive Daily Ex. Sunday					
Roseville yard	BKWOTYP	106.6	TO-R ROSEVILLE 4.0	138.7	AM 6.25	AM 10.50	AM 1.10	AM 3.00	AM 3.40						
	P	110.6	ROCKLIN 3.3	134.7				2.50	3.30						
W 126	P	113.9	TO LOOMIS 2.7	131.4	6.16	10.38	12.55	s 2.35	3.20						
W 45	P	116.6	PENRYN 3.0	128.7					3.13						
Yard Limits W 65	WP	119.6	TO NEWCASTLE 4.9	125.7	6.05	10.26	12.44	s 2.05	3.05						
W 135	WP	124.5	TO AUBURN 3.9	120.8	5.56	10.16	12.34	s 1.55	s 2.55						
W 85	P	128.4	BOWMAN 13.7	116.9	5.48	10.08	12.26 AM	1.40	2.40						
Yard Limits W 103	BKWYP	142.1	TO-R COLFAX 4.3	103.2	5.22	9.40	s 11.58 PM	s 1.10	s 2.10						
	P	146.4	CAPE HORN 6.2	98.9	5.15	9.31	11.45	12.49	1.45						
W 94	WOYP	152.6	TO GOLD RUN 4.6	92.7	5.02	9.18	11.32	f 12.35	1.30						
	WP	157.2	TOWLE 3.9	88.1											
M 98	P	161.1	MIDAS 4.1	84.2	4.46	9.01	11.15	12.10 AM	1.05						
M 90	WP	165.2	KNAPP 6.0	80.1	4.38	8.53	11.07	11.59 PM	12.50						
Yard Limits M 95	WTP	171.2	TO EMIGRANT GAP 4.3	74.1	4.26	8.41	10.55	f 11.45	12.36						
W 74	P	176.1	YUBA PASS 1.8	69.8	4.18	8.33	10.47	11.34	12.25						
M 80	WP	177.9	CRYSTAL LAKE 2.4	68.0	4.14	8.29	10.43	11.29	12.20						
	P	180.3	CISCO 5.3	65.6											
M 59	WP	185.6	TROY 6.5	60.3	3.59	8.14	10.28	11.11	12.05 AM						
Summer 71			TO NORDEN 4.0	53.8	3.46	8.01	10.15	f 10.55	11.50 PM						
124	BKWTP	192.1	DONNER 1.1	49.8	3.38	7.52	10.05	10.40	11.35						
W 85	P	196.1	EDER 5.7	48.7											
	WP	202.9	STANFORD 5.1	43.0											
Yard Limits W 126	WOYP	208.0	TO-R TRUCKEE 8.2	37.9	3.19	s 7.28	s 9.40	s 10.05	s 11.00						
	P	216.2	BOCA 1.8	29.7			9.22	9.41	10.31						
M 101	P	218.1	HINTON 4.3	27.9	3.04	7.08	9.18	9.37	10.27						
	WP	222.4	FLORISTON 9.9	23.6											
M 106	P	232.3	VERDI 10.4	13.7	2.46	6.46	8.56	9.13	10.03						
	P	242.7	RENO 2.6	3.3	s 2.30	s 6.30	s 8.40	s 8.55	s 9.45						
		242.9	SPARKS (Psgr. Sta.) 0.7	0.7											
		245.5	TO-R SPARKS (Dsp. Off.)	0.0	2.22 AM	6.20 AM	8.15 PM	8.30 PM	9.20 PM						
Sparks yard	BKWOTYP	246.2			Leave ★See Note	Leave Daily	Leave Daily	Leave Daily	Leave Daily						
			(138.7)												
			Time over District.....		(4.03)	(4.30)	(4.55)	(6.30)	(6.20)						(0.15)
			Average Speed per Hour.....		34.25	30.82	28.21	21.34	21.90						13.20

★Note—No. 101 leave and arrive 1st, 4th, 7th, 10th, 13th, 16th, 19th, 22nd, 25th, 28th and 31st of each month.

**RULES 86, 87, and 93.** First-class trains must clear the time of No. 101 not less than 10 minutes and second-class, extra trains and engines must clear the time of No. 101 not less than 15 minutes, except where Rule D-251 applies.

No. 605 may run ahead of first-class trains from Sparks.

**RULE 5.** Schedule time and train-order time apply as follows:  
At Troy, at middle siding.  
At Newcastle, at east crossover switch. Westward trains must stop east of east crossover switch unless authorized by train-order signal to proceed.

ADDITIONAL FLAG STOPS TO RECEIVE OR DISCHARGE REVENUE PASSENGERS				
Train	At	Receive To (or Beyond)	Discharge From (or Beyond)	Frequency
21	Any Station.....	.....	Reno.....	Daily
21	Soda Springs.....	.....	.....	Daily
23	Soda Springs.....	.....	.....	Daily
23	Any Station.....	.....	East of Ogden..	Daily

No. 21 exchange mail by locker at Emigrant Gap, Auburn, Newcastle, Penryn and Loomis.

EAST VALLEY SUBDIVISION

EASTWARD					Mile Post Location	Timetable No. 169 June 2, 1946	Distance from Tehama	WESTWARD					
Capacity of sidings in car lengths	THIRD CLASS			FIRST CLASS				STATIONS	Passenger	FIRST CLASS			
	498	496	494	202						201			
	Freight	Manifest	Freight	Passenger						Passenger			
Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Arrive Daily								
Roseville yard BKWOTYP	PM 4.10	AM 8.05	AM 12.05	AM 10.38	106.6	TO-R ROSEVILLE	105.1	s	PM 6.25				
100 P	4.25	8.20	12.20	10.48	112.8	6.2 WHITNEY	98.9		6.14				
120 WP	4.33	8.28	12.28	s 10.54	117.0	4.2 LINCOLN	94.7	s	6.05				
96 P	4.42	8.37	12.37	11.03	122.1	5.1 BROCK	89.6		5.52				
				11.07	124.8	2.7 SHERIDAN	86.9		5.48				
124 WP	4.53	8.48	12.48	s 11.12	128.1	3.3 WHEATLAND	83.6	f	5.42				
28 YP	4.59	8.54	12.54	11.16	131.2	3.1 ERLE	80.5		5.31				
91 P	5.03	8.59	12.59	11.20	134.2	3.0 OSTROM	77.5		5.27				
					139.8	5.6 DANTONI JCT.	71.9						
Yd. Limits. 112 BKWOIYP	5.16	9.12	1.12	s 11.40	140.8	1.0 TO-R MARYSVILLE	70.9	s	5.16				
IP					141.8	1.0 BINNEY JCT.	69.9						
100 WP	5.30	9.22	1.22	11.47	144.7	2.9 BERG	67.0		4.53				
36	5.36	9.28	1.28	11.51	147.7	3.0 LOMO	64.0		4.49				
105 IP	5.43	9.35	1.35	s 11.57	151.5	3.8 TO LIVE OAK	60.2	s	4.44				
104 P	5.55	9.47	1.47	PM 12.06	158.0	6.5 TO GRIDLEY	53.7	s	4.34				
43 WP	6.01	9.53	1.53	s 12.15	161.4	3.4 TO BIGGS	50.3	s	4.22				
107 P	6.11	10.04	2.04	s 12.25	167.4	6.0 RICHVALE	44.3	s	4.11				
91 P	6.18	10.11	2.11	12.31	171.5	4.1 NELSON	40.2	f	4.03				
88 P	6.30	10.23	2.23	f 12.40	178.1	6.6 TO DURHAM	33.6	s	3.52				
Yard Limits 159 BKWOYYP	6.40	10.34	2.34	s 12.59	184.2	6.1 TO-R CHICO	27.5	s	3.41				
100 P	6.57	10.51	2.51	1.13	193.6	9.4 ANITA	18.1		3.18				
133 WP	7.12	11.07	3.07	f 1.28	203.0	9.4 VINA	8.7	f	3.05				
41 P	7.24	11.19	3.19	f 1.40	209.7	6.7 TO LOS MOLINOS	2.0	f	2.55				
YP	7.30 PM	11.25 AM	3.25 AM	1.50 PM	211.7	2.0 TEHAMA	0.0		2.50 PM				
	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily		(105.1)			Leave Daily				
	(3.20) 31.53	(3.20) 31.53	(3.20) 31.53	(3.12) 32.82		.....Time over District.....			(3.35) 29.33				
						.....Average Speed per Hour.....							

Double track on Tehama line at Roseville extends to MP 106.88. Eastward track begins at initial switch in No. 2 track, 38 feet east of Lincoln St. Westward track ends at switch to west drill track, at west line of Lincoln St.

ADDITIONAL STATIONS		
NAME	Mile Post	Capacity
Clayton.....	118.4	..
Ewing.....	121.0	..
Jester.....	126.0	..
Rupert..... (Spur)	138.9	..
Sullivan.....	146.4	..
Sunset.....	149.8	..
Fagan.....	155.9	..
Riceton.....	164.1	..
Faulkner.....	181.9	..
Gimbal.....	189.1	..
Nord.....	191.3	..
Cana.....	196.0	..
Second St., Tehama....	211.1	..

ADDITIONAL FLAG STOPS TO RECEIVE OR DISCHARGE REVENUE PASSENGERS				
Train	At	Receive To (or Beyond)	Discharge From (or Beyond)	Frequency
202	Sheridan.....	Any Station....	Any Station....	Sun. & Hol.

No. 201 stop at Sheridan when necessary for U. S. Mail or newspapers.  
No. 202 stop daily except Sunday and holidays at Tehama for U. S. Mail.

# EAST VALLEY SUBDIVISION

EASTWARD			WESTWARD			
Capacity of sidings in car lengths	SECOND CLASS	Mile Post Location	Timetable No. 169 June 2, 1946		Distance from Stirling City	THIRD CLASS
	<b>526</b>		Stirling City Branch	STATIONS		<b>527</b>
	Local Freight					Local Freight
	Leave Daily Ex. Sunday					Arrive Daily Ex. Sunday
Yard Limits BKWOYP	AM 10.00	184.2	TO-R	<b>CHICO</b>	31.2	PM 4.40
		186.6		2.4 <b>SNRy Crossing</b>	28.8	
16 WP	11.05	198.2		11.6 <b>PARADISE</b>	17.2	3.30
8	AM 11.35	203.2		5.0 <b>MAGALIA</b>	12.2	3.05
14 WP	PM 12.15	210.0		6.8 <b>DOON</b>	5.4	2.30
WY	PM 12.45	215.4	R	5.4 <b>STIRLING CITY</b>	0.0	2.00 PM
	Arrive Daily Ex. Sunday			(31.2)		Leave Daily Ex. Sunday
	(2.45) 11.35			..... Time over District.....		(2.40)
				..... Average Speed per Hour.....		11.70

Capacity of sidings in car lengths	EAST- WARD	Mile Post Location	Timetable No. 169 June 2, 1946		Distance from Dantoni	WEST- WARD
			Dantoni Branch	STATIONS		
		139.8		<b>DANTONI JCT.</b>	4.4	
Yd. Limits 47		144.2	R	4.4 <b>DANTONI</b>	0.0	
				(4.4)		

Capacity of sidings in car lengths	EAST- WARD	Mile Post Location	Timetable No. 169 June 2, 1946		Distance from Oroville	WEST- WARD
			Oroville Branch	STATIONS		
Yard Limits 112 BKWOIYP	140.8 122.7		TO-R	<b>MARYSVILLE</b>	25.2	
10 P	135.0			12.3 <b>HONCUT</b>	12.9	
Yard Limits WTP	147.9		TO-R	12.9 <b>OROVILLE</b>	0.0	
				(25.2)		

Capacity of sidings in car lengths	EAST- WARD	Mile Post Location	Timetable No. 169 June 2, 1946		Distance from Wilson	WEST- WARD
			Yuba City Branch	STATIONS		
100 WP	144.7 144.4			<b>BERG</b>	14.4	
Yard Limits WYP	147.6		TO	3.2 <b>YUBA CITY</b>	11.2	
45	150.3			2.7 <b>BOGUE</b>	8.5	
40	152.2			1.9 <b>OSWALD</b>	6.6	
28 W	156.6			4.4 <b>TUDOR</b>	2.2	
	158.8			2.2 <b>WILSON</b>	0.0	
				(14.4)		

ADDITIONAL STATIONS		
NAME	Mile Post	Capac- ity
<b>Stirling City Branch</b>		
Butte Creek.....	188.3	..
Dredge.....	189.3	..
Oakdale Farms.....	196.6	..
Optimo.....	202.2	..
Luce.....	207.1	..
<b>Oroville Branch</b>		
Mello.....	126.5	..
Ramirez.....	130.7	..
Palermo.....	142.5	..
<b>Yuba City Branch</b>		
Abbott.....	155.6	..
<b>Dantoni Branch</b>		
Linda.....	143.0	..



## WEST VALLEY SUBDIVISION

## EASTWARD

## FIRST CLASS

Capacity of sidings in car lengths	Mile Post Location	FIRST CLASS						Mile Post Location	Automatic Block System	Timetable No. 169 June 2, 1946	Distance from Davis
		20	18	14	12	202	16				
		Klamath Leave Daily	Oregonian Leave Daily	Beaver Leave Daily	Cascade Leave Daily	Passenger Leave Daily	West Coast Leave Daily				
E 80 Yard Limits W 81 KWYYP		PM 11.35	PM 9.00	PM 7.30	PM 7.20		AM 10.45	75.6	TO-R DAVIS	0.0	
100 P		11.43	9.07	7.37	7.27		10.53	80.7	5.1 MERRITT	5.1	
97 Yard Limits BKWIP		PM s 11.55	s 9.14	7.43	7.32		s 11.05	84.9	4.2 TO WOODLAND	9.3	
38 P		AM 12.03	9.20				11.13	89.9	5.0 TO YOLO	14.3	
105 P		12.09	9.26	7.54	7.43		11.20	95.8	5.9 ZAMORA	20.2	
32 WP		12.17	9.34				11.28	103.2	7.4 DUNNIGAN	27.6	
196 WYP		12.22	9.39	8.05	7.54		11.34	108.3	5.1 HARRINGTON	32.7	
41 P		f 12.28	9.44				s 11.43	113.5	5.2 TO ARBUCKLE	37.9	
51 P		s 12.43	9.55				AM s 11.58	124.2	10.7 TO WILLIAMS	48.6	
103 P		12.51	10.00	8.23	8.12		PM 12.05	129.1	4.9 CORTENA	53.5	
WP		f 12.55	10.04				12.10	133.0	3.9 TO MAXWELL	57.4	
101 P		1.07	10.09	8.32	8.21		12.16	138.3	5.3 DELAVAN	62.7	
113 Yard Limits BKWOYP		s 1.27	s 10.22	8.44	8.32		s 12.36	149.9	11.6 TO-R WILLOWS	74.3	
41 P		1.40	10.29				12.45	156.8	6.9 ARTOIS	81.2	
102 P		1.44	10.33	8.55	8.43		12.49	160.7	3.9 GRAPIT	85.1	
40 WP	Yu.Limits.	s 2.05	10.38				s 1.00	165.4	4.7 TO-R ORLAND	89.8	
36 YP		2.08	10.40				1.03	167.0	1.6 WYO	91.4	
23 P		2.20	10.47	9.08	8.56		1.11	173.4	6.4 KIRKWOOD	97.8	
43 P		s 2.38	10.53	9.15	9.02		s 1.22	178.5	5.1 TO CORNING	102.9	
41 P		2.48	10.57				1.27	181.6	3.1 RICHFIELD	106.0	
YP		3.05	11.03	9.24	9.10	PM 1.50	1.35	186.3	4.7 TEHAMA	110.7	
164 Gerber yard BKWOIYP		s 3.15 AM	s 11.10 PM	s 9.30 PM	s 9.15 PM	s 1.55 PM	s 1.45 PM	211.7	2.1 TO-R GERBER	112.8	
		Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily		(112.8)		
		(3.40) 30.76	(2.10) 52.05	(2.00) 56.40	(1.55) 58.85	(0.05) 25.20	(3.00) 37.60		Time over District.....		
									Average Speed per Hour.....		

**RULE 5.** Schedule time and train-order time at Gerber apply at station sign.

**RULE 86.** Freight trains must not go to a siding where they are unable to get into clear for Nos. 11, 12, 13, 14 and 18 unless instructed to do so by dispatcher, or to avoid congestion.

No. 20 stop daily, except Sunday and Holidays, at Delavan, Artois, Kirkwood, Richfield and Tehama for exchange of mail.

Capacity of sidings in car lengths	Mile Post Location	Timetable No. 169 June 2, 1946		Distance from Fruto
		EAST- WARD	WEST- WARD	
113 Yard Limits BKWOYP	149.9	TO-R	WILLOWS	17.0
14 TP	166.9	R	FRUTO	0.0
			(17.0)	

ADDITIONAL STATIONS			ADDITIONAL STATIONS		
NAME	Mile Post	Capacity	NAME	Mile Post	Capacity
Davis-Gerber line			Karnak Branch		
Dufour	92.1	..	Enslay	97.6	..
Ronda	93.7	..	Knights Landing Branch		
Bretona	98.0	..	Garcia	87.2	..
Hershey	100.4	..	Laugenour	89.4	..
Genevra	117.6	..	Coranco	92.4	..
Dolphos	120.8	..	Cunard	96.1	..
Norman	142.1	..	Grace	96.5	..
Logandale (Spur)	144.3	..	Robbins (Spur)	100.4	19
Riz	146.0	..	Seymour	101.7	..
Lyman	153.2	..	Subaco (Spur)	105.1	41
Greenwood	162.0	..	Pelger	107.2	..
Malton	169.0	..	Everglade (Spur)	109.3	11
Losa	152.6	..	Hinsdale (Spur)	111.2	23
Kurand	155.8	..	Tisdale (Spur)	113.3	10
Millsholm	159.6	..	Progress (Spur)	115.2	1
Athena	163.6	..			

WEST VALLEY SUBDIVISION

Mile Post Location	Timetable No. 169 June 2, 1946	Distance from Gerber	WESTWARD								
			FIRST CLASS								
			19 Klamath	11 Cascade	13 Beaver	17 Oregonian	201 Passenger	15 West Coast			
STATIONS			Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily			
75.6	TO-R DAVIS 5.1	112.8	AM 5.15	AM 8.55	AM 9.10	PM 4.25		PM 6.25			
80.7	MERRITT 4.2	107.7	s 5.07	s 8.47	s 9.02	s 4.17		s 6.16			
84.9	TO WOODLAND 5.0	103.5	s 5.01	8.42	8.57	s 4.10		s 6.10			
89.9	TO YOLO 5.9	98.5	4.50			3.58		5.57			
95.8	ZAMORA 7.4	92.6	4.44	8.31	8.46	3.52		5.51			
103.2	DUNNIGAN 5.1	85.2	4.36			3.44		5.43			
108.3	HARRINGTON 5.2	80.1	4.30	8.20	8.35	3.38		5.37			
113.5	TO ARBUCKLE 10.7	74.9	4.25			3.33		5.32			
124.2	TO WILLIAMS 4.9	64.2	s 4.13			s 3.21		s 5.19			
129.1	CORTENA 3.9	59.3	4.05	8.02	8.17	3.11		5.10			
133.0	TO MAXWELL 5.3	55.4	s 3.59			3.06		5.05			
138.3	DELAVAN 11.6	50.1	3.51	7.53	8.08	3.00		4.58			
149.9	TO-R WILLOWS 6.9	38.5	s 3.38	7.42	7.57	s 2.47		s 4.45			
156.8	ARTOIS 3.9	31.6	3.26	7.34	7.49	2.35		4.32			
160.7	GRAPIT 4.7	27.7	3.22	7.30	7.45	2.31		4.27			
165.4	TO-R ORLAND 1.6	23.0	s 3.15			s 2.24		s 4.20			
167.0	WYO 6.4	21.4	3.08	7.23	7.38	2.17		4.10			
173.4	KIRKWOOD 5.1	15.0	3.01	7.17	7.32	2.10		4.03			
178.5	TO CORNING 3.1	9.9	s 2.55			s 2.03		s 3.54			
181.6	RICHFIELD 4.7	6.8	2.48	7.09	7.24	1.55		3.45			
186.3 211.7	TEHAMA 2.1	2.1	2.39	7.04	7.19	1.49	PM 2.50	3.39			
213.8	TO-R GERBER	0.0	2.35 AM	7.00 AM	7.15 AM	1.45 PM	2.45 PM	3.35 PM			
	(112.8)		Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily			
	..... Time over District.....		(2.40)	(1.55)	(1.55)	(2.40)	(0.05)	(2.50)			
	..... Average Speed per Hour.....		42.30	58.85	58.85	42.30	25.20	39.81			

**RULE 5.** Schedule time and train-order time at Gerber apply at station sign.

**RULE 86.** Freight trains must not go to a siding where they are unable to get into clear for Nos. 11, 12, 13, 14 and 18 unless instructed to do so by dispatcher, or to avoid congestion.

ADDITIONAL FLAG STOPS TO RECEIVE OR DISCHARGE REVENUE PASSENGERS				
Train	At	Receive To (or Beyond)	Discharge From (or Beyond)	Frequency
17	Maxwell.....	Any Station .....	.....	Oct. 15 to Jan. 20
17	Arbuckle.....	Berkeley.....	.....	Daily
19	Arbuckle.....	West of Davis where scheduled to stop.....	.....	Daily

Capacity of sidings in car lengths	EAST-WARD		WEST-WARD	
	Mile Post Location	STATIONS	Mile Post Location	STATIONS
196 YP	108.3	R HARRINGTON 12.5	72.1	
60	120.8	TO GRIMES 12.2	59.6	
33	133.0	TO COLUSA 12.9	47.4	
33 W	145.9	PRINCETON 4.5	34.5	
28	150.4	CODORA 19.6	30.0	
35 W	170.0	TO HAMILTON 10.4	10.4	
Yard Limits		WYO	0.0	
36 YP	180.4			

(72.1)

ADDITIONAL STATIONS		
NAME	Mile Post	Capacity
Colusa Branch		
College City.....	112.3	..
Graino.....	116.0	..
Sycamore.....	124.4	..
Denco.....	137.1	..
Stegeman.....	142.2	..
Glenn.....	155.6	..
Ordbend.....	162.1	..
Rotavele.....	165.9	..
Cory.....	178.6	..



**RULE 2. Watch Inspectors:**

San Francisco, S. A. Pope, Manager of Time Service, 65 Market St.  
 Sacramento, H. T. Harger, 1026 K St.  
 Roseville.....W. F. Sugden Willows.....Robt. E. Boyd  
 Colfax.....H. O. Grenier Orland.....L. Schnell  
 Sparks.....W. R. Adams & Son Oroville.....M. C. Tieck  
 Placerville....Wm. J. Randolph Marysville.....T. M. Young  
 Woodland.....O. D. Payne Chico.....J. R. Dupen

**RULE 2 (A).** Watches subject to inspection must be presented monthly, between first and fifteenth, instead of semi-monthly, to a designated inspector.

**RULE 4. Designated Holidays:**

New Year's Day, January 1st.  
 Washington's Birthday, February 22nd.  
 Decoration Day, May 30th.  
 Independence Day, July 4th.  
 Labor Day, First Monday in September.  
 Thanksgiving Day, Fourth Thursday in November.  
 Christmas Day, December 25th.

**RULE 10 (H).** Where yellow signals are displayed within limits of a length of track over which a maximum speed is designated in train order or timetable bulletin and no maximum speed is otherwise specified for the particular section of track protected by these yellow signals, trains must not exceed 15 MPH thereover.

**RULE 10 (J).** Certain slow boards have the word "SIGNAL" above the figures. Such slow boards in approach to a distant signal indicate the speed that must not be exceeded while engine is passing the distant signal three-fourths mile beyond slow board, unless distant signal can plainly be seen to be displaying proceed indication; and such slow boards in approach to a home signal indicate the speed that must not be exceeded while approaching home signal three-fourths mile beyond the slow board, until indication of home signal can plainly be seen.

**RULE 15. Second paragraph is changed to read as follows:**

"The explosion of two torpedoes is a signal to proceed with caution for not less than one mile."

**RULE 17.** Mars signal light on engines shall be used when engine is moving at night, and in foggy or stormy weather. It must be dimmed or extinguished approaching passenger stations, and at other points as prescribed by rules.

**RULE 26.** When necessary for any member of the crew in Streamliner service to go underneath any part of the train, chains will be used for blocking and one placed securely on either side of a traction wheel. In addition, an understanding will be had with the engineer-operator to the effect that he will not move the train until the employe in charge of the work personally reports back to him. A 90-pound brake application must be maintained during the progress of the work.

**Rule 26 is revised to read as follows:**

"A blue signal or sign reading 'Men at Work' displayed on engineer's side of cab of an engine or at one or both ends of a car, cut of cars, or at the rear of a train, indicates that workmen are under or about same and the engine, car, cut of cars or train must not be coupled to nor moved by any method, nor other equipment placed so as to obstruct the view of the blue signal or sign.

"Blue signal or sign must not be removed by any person except the one placing the signal or sign, or someone authorized by him to do so.

"On designated tracks (repair, cleaning, servicing, etc.) where employes work, a sign reading 'Stop—Men at Work' must be placed on the track and switches leading to such track locked; and from sunset to sunrise a blue light must also be displayed. Employes placing such sign and locking switches, only are authorized to change same.

"When repair work is to be done under or about an engine or cars in a train, where movement of same would endanger employes engaged in such work, and a blue signal or sign is not available, the enginemen of engine handling train must be notified by employe engaged in such work and a complete understanding had to prevent movement. After work is completed the same employe must notify enginemen."

**RULE S-72.** Westward trains are superior to trains of the same class in the opposite direction.

**RULE 99.** Third, fourth and sixth paragraphs of Rule 99 are changed to read as follows:

"If recalled from a point less than one-half mile from rear of his train, he must, if safety to train requires, leave lighted fusee at proper intervals and, if conditions warrant, also place two torpedoes on the rail three rail-lengths apart."

"If not recalled, one-half mile from rear of train he must place one torpedo on the rail; one mile from rear of train, or when recalled, if one-half mile or more from rear of train, he must place two torpedoes on the rail three rail-lengths apart. If conditions such as curves, foggy or stormy weather or descending grade require, he must continue back a greater distance, placing two additional torpedoes."

"When flagman has reached the required flagging distance and has placed torpedoes as required, he may then return to the single torpedo where he must remain until relieved by another flagman or recalled. When recalled, he may remove the single torpedo and return, leaving lighted fusee at such intervals as conditions warrant."

When torpedoes are used between Blue Canon and Stanford, and at any point during snow storm or when snow on rails, each torpedo placed will be duplicated on opposite rail.

Westward trains except first-class having received proceed signal from yardman to pass Signal 1065 or Signal 1067 to move on westward main track and rear of train having passed either of these signals need not provide flag protection to the rear if stopped or delayed, until rear end passes subway. Protection between these points will be the responsibility of yardmaster or his representative. Protection east of these signals, and beyond subway must be provided by the train or engine crew.

**RULE 105.** Abbreviations used for sidings: "E" for Eastward, "W" for Westward, "M" for Middle.

**RULE 210** is modified to provide that when using revised Train Order Form CS-2600, which has the words "Repeated and Complete" printed at bottom of the form, operator will write or typewrite the time and his or her last name in the space provided on the order, after it has been made complete by train dispatcher.

**RULE 221.** First sentence of third paragraph is amended as follows: "When a train order is to be delivered to an approaching train, or orders are held for any other train in the same direction, except those originating, the operator must not clear the signal."

**RULE 271 is revised to read as follows:**

"Automatic block signals will bear number plates attached to signal masts. Automatic semaphore home signal arms will be painted red and will be distinguished by white stripe near end of semaphore arm. The number plate on a distant light signal will bear the prefix 'D'.

"Interlocking signals will not bear number plates.

"Absolute signals will not bear number plates, but will have plates bearing the letter 'A'.

"Interlocking and absolute semaphore home signal arms will be painted red.

"Aspects as illustrated or referred to in these rules are shown by the position of semaphore arms or color of lights, or both, as seen from an approaching train. Other combinations may be used."

**RULE 295 is revised to read as follows:**

"Interlocking or absolute signals may be made part of the automatic block system adjoining interlocking or centralized traffic control limits. When so arranged they will be designated 'semi-automatic' and distinguished by a plate bearing the letters 'SA'. Trains stopped by such signals must observe interlocking or centralized traffic control rules within the interlocking or centralized traffic control limits, and Rule 509, 509(F) or 509(J), as the case may be, within the automatic portion of the block beyond interlocking or centralized traffic control limits."

**RULE 297. Following paragraph is added:**

A train, if delayed in the block, must proceed with caution to the next signal.

**RULE 505. AUTOMATIC BLOCK SYSTEM****PUSH BUTTONS**

Where signal protection is provided for movements from an adjacent track to main track, push buttons and pilot lights are installed in box near each of the two signals, with time-release feature, to clear signals on one track when the control circuit on the other track is occupied.

Train on main track to let train on siding pass may clear signal on siding by pressing button bearing number of signal on siding. Train on siding to let train on main track pass should not pass Approach Circuit sign, but when necessary to do so, may clear signal on main track by pressing button bearing number of signal on main track.

Pilot light will appear after time-release has operated and signal has cleared

Further instructions posted inside push-button box.

**ELECTRIC SWITCH LOCKS**

Where electric switch locks are installed, lock box door must not be opened if movement is to be made into a track leading from main track until engine or car is standing within 150 feet of the switch; or if movement is to be made from such track, or through a crossover to a main track, until switch indicator indicates block clear on opposite track.

After lock box door is opened lock lever cannot be moved to opposite position to release switch for hand throwing until indicator in lock box indicates "unlocked".

Lock lever must not be returned to locked position until all movements over the switch are completed, switch returned to normal position and locked.

When switch indicators indicate "block occupied", instructions posted inside lock box for operation of push button to start time-release must be complied with if movement is to be made to main track while approach circuit is occupied by another train, in addition to providing flag protection when necessary.

Emergency lock release to be used only in case of electrical or mechanical failure. When necessary to break seal on emergency lock release, dispatcher must be notified immediately and movement made only after flag protection provided on both tracks.

**RULE 535. SPRING SWITCHES**

When a spring switch is hand thrown, trainman so setting switch must again set it for normal position after movement has been completed, unless another trainman has been notified to do so.

A spring switch with facing point lock must not be trailed through unless switch target displays letters "SS" in normal position, or switch has been lined for the movement.

**RULE 536.** Wheels of tenders must not be considered as engine wheels.

**RULES 705 and 707** are revised to read as follows:

**"LETTER TYPE INDICATORS**

**"705.** Within block system limits, at locations specified in timetable, letter type indicators may be used. These indicators will be attached to an automatic block signal, and will display indications by illuminated letters, which will supersede the superiority of trains within defined limits.

**"S—**Take siding (Fig. 1).

**"M—**Proceed on main track (Fig. 2).

**"Other letters, or combinations of letters may be used.**

**"S-707.** When the letter 'M' is displayed, train is thereby given superiority over all trains to the fouling point of the switch at which an opposing train may enter siding or receiving track, and will hold main track at the station, but must observe any restrictions that may be imposed by automatic block or other signals.

**"D-707.** When the letter 'M' is displayed approaching a siding, or at the initial switch of a siding, train will hold main track; when displayed on a siding near the leaving end of siding, train will enter main track and in either case train is thereby given superiority over all following trains to the point designated in timetable but must observe any restriction that may be imposed by automatic block or other signals."

**GENERAL REGULATIONS**

**RULE 824.** On grades at any point, where engine or engines are to be detached for any reason, air brakes must be released and a sufficient number of hand brakes must be set to hold train.

**RULE 834.** Does not apply to trains consisting entirely of logs.

**RULE 837.** Fifth paragraph is revised to read as follows:

Cars standing on grade must not be coupled onto, in descending direction, without knowing sufficient hand brakes are set to prevent uncontrolled movement of any such cars should coupling fail or cars not be securely coupled together.

**RULE 849.** Steam valve on Pullman troop sleepers cannot be opened while train is in motion, and when such car is on rear of train steam line must not be cut in any portion of train until valve is closed on the car on each side of coupling to be opened, to avoid burning by steam.

**RULE 869.** Freight brakemen must be on top of train on descending grades between Truckee and Loomis, except between Andover and Emigrant Gap.

On freight trains between Lawton and Loomis, member of train crew will observe track from rear of caboose so train may be stopped in event of derailment. Two Dietz lanterns placed on rear of caboose will be used at night to assist in observing track.

When practicable, trainman must ride rear platform or in rear car on all trains and in a position to observe fire that may be set from moving train while passing through wooden lined tunnels and over long open-deck wood trestles.

**RULE 873.** Sanders must not be operated within 150 feet of power operated switches.

**RULE 827. TRAIN INSPECTION**

Trains, including military trains, made up in part of freight cars or caboose equipped with cast iron wheels are required to comply with rules and timetable instructions applying to freight trains as they relate to stopping for train inspection, and speed restrictions.

Cars bearing placards denoting contents are explosive, inflammable, poisonous or otherwise dangerous, must be given careful inspection at all points where train inspection is made.

**AIR BRAKE RULES**

**RULE 25.** When passenger equipment is handled on freight trains and a rear end test is made, considerable time must elapse before brake pipe pressure will build up sufficiently to release the brakes on passenger equipment.

Conductor will advise engineman when they have such passenger equipment on the rear of train so he may allow a sufficient length of time for brakes to release before attempting to start train.

**MISCELLANEOUS****4. Helper service:**

No helper engine will be placed behind wooden underframe cars or cabooses.

Engines weighing more than 235,000 pounds on drivers will not be placed behind steel underframe cabooses.

In no case will more than one helper engine be placed behind steel underframe cabooses.

Not more than one Mt, F, AC or GS class engine may be placed on head end of a freight train. One engine other than the above may be placed ahead of Mt, F, AC or GS class engines in helper service, but not more than two engines will be used on head end of any freight train. When additional helpers are required, they will be placed when practicable in rear of train four cars ahead of caboose and any cars of wooden frame construction, except that consolidation class helpers may be placed one car ahead of caboose and cars of wooden frame construction.

Air will be cut in on all helper engines, and engine must not be cut off when train is in motion.

When used as helpers in rear of train, AC, AM or MM class engines must not be coupled together, nor may more than two F, Mt, or heavier class, or more than three smaller classes be coupled together. When coupled, larger engines must be placed ahead of smaller engines. If tonnage requires more power, additional helpers of not to exceed two coupled in each case, must be separated by at least four cars.

Helpers must not be operated backing except in emergency, and in such case engines should not push through a backing engine if it can be avoided.

Helper engines coupled in middle or rear of train must be cut off from forward portion before taking water. On grades road engine and helper must not be cut off from train at the same time without hand brakes being securely set.

**4a. For the purpose of pushing trains out of yards:**

No engine will be placed behind wooden underframe caboose or other wooden frame equipment.

Engines weighing more than 235,000 pounds on the drivers will not be placed behind steel underframe cabooses.

Air will not be coupled through pusher engine.

Yard engines regularly so used will be equipped with Russell-Jordan device to hold the coupler pin from dropping, thus making it unnecessary for employes to uncouple the pusher engine when cutting off.

In no case shall the knuckle be removed, or closed, or cutting lever temporarily fastened in release position on a pusher engine, as means of preventing coupling being made.

Unless local conditions require, it will not be necessary to stop trains to detach pusher engines.

7. Capacity of sidings between clearance points is based on an average car length of 49 feet not including engines and caboose.

10. When a sign reading "Occupied Outfit Cars" is attached to switch lock, the outfit cars must not be coupled to, nor moved until occupants have been notified, and permission given by foreman or his representative.

20. Handling of freight cars in trains behind passenger cars is prohibited except passenger equipment may be placed in head end of mixed trains when carrying personnel and equipment in connection with military and naval movements. This does not refer to a baggage, express, or mail car, or a caboose.

All cars moved in passenger trains must be equipped with steel-tired or all-steel wheels. When cars not so equipped are offered for movement, they will be handled in freight trains—passengers, if any, to move on passenger train.

Wooden passenger-carrying cars, wooden baggage, express and other head-end cars, unless equipped with steel center sills and steel platforms, must not be used in passenger service.

Passenger equipment handled in freight trains must be placed between cars equipped with Carmer cutting lever.

Cars with inoperative couplers, containing perishables or live stock, may be chained in train and moved to nearest available repair point. Other cars with defective couplers will be switched to the rear of caboose using operative coupler by turning car. Car and caboose should be chained to prevent breaking away from train. Cars chained may be moved to nearest repair point in direction train is moving.

21. Employes are warned that it is dangerous to ride on top or sides of cars where impaired side clearance exists.

There are numerous structures with impaired clearance on yard and station tracks on the division, and employes must be familiar with their locations and avoid personal injury.

**SPEED RESTRICTIONS**

\*List of CCB (cross counter-balanced) engines:

All P-3 class, except eng. 2470:

F-1 class: 3611, 3612, 3615, 3616, 3617, 3619, 3620, 3625, 3629, 3634, 3636, 3638, 3643, 3647, 3652;

F-3 class: 3653, 3654, 3655, 3656, 3657, 3658, 3660, 3661, 3662, 3663, 3664, 3665, 3666, 3667;

F-4 class: 3668, 3670, 3671, 3672, 3674, 3675, 3676, 3677, 3678, 3679, 3681, 3682, 3683, 3684, 3685, 3686, 3687, 3688, 3689, 3690, 3692, 3693, 3695, 3696, 3697, 3698, 3699, 3701, 3702, 3703, 3704, 3705, 3706, 3707, 3709, 3711, 3715, 3716, 3717;

F-5 class: 3718, 3720, 3721, 3722, 3723, 3727, 3728, 3732, 3734, 3737, 3742, 3752, 3753, 3755, 3760, 3762, 3763, 3764, 3765, 3766, 3767, 3768, 3769;

AC-6 class: 4126, 4127, 4128, 4130, 4131, 4132, 4133, 4135, 4136, 4137, 4138, 4139, 4140, 4141, 4142, 4143, 4144, 4146, 4147, 4148, 4149, 4150.

**MAXIMUM SPEED PERMITTED CERTAIN ENGINES**

Maximum speed for C-15-17-32, Mk-10-11 and MM-3 class engines 35 MPH when handling freight and mixed trains.

Maximum speed for S and SE class engines, 20 MPH, but must not exceed speed permitted freight and mixed trains and light engines.

Maximum speed for gas-electric cars running light forward, 50 MPH, but must not exceed speed permitted when handling passenger trains.

Engines backing must not exceed 20 MPH on all curves, and when approaching road crossings at grade.

Engines coupled tender to tender must not exceed speed permitted same engines running light backward.

Engines with tenders having water capacity 7,000 gallons or less, except Classes 70-R-1 and 70-SC-1, must not exceed 50 MPH.

Diesel electric switch engines running forward, with train or light, may make maximum speed as shown below, except must not exceed speed permitted freight and mixed trains. These engines when backing may make speed shown below, except must not exceed speed permitted E class engines backing where such permitted speed is less than 30 MPH:

Classification	Running Forward		Running Backward With Train or Light
	With Train	Light	
DES-200 .....	30	30	30
DES-1 to 7, 100 to 107...	40	40	40

Maximum speed of engines under following conditions, running under own steam or hauled in train, must not exceed:

- When all weight has been removed from any one pair of drivers ..... 20 MPH
  - When all weight has been removed from only one wheel from any pair of drivers ..... 30 MPH
  - When engine truck is removed ..... 20 MPH
  - When main rod only is removed ..... 30 MPH
  - When side rod only is removed ..... 30 MPH
  - When both main and side rods are removed ..... 20 MPH
  - When hauled in train with all rods on ..... 30 MPH
- Blocking of leading drivers of an engine, in order to redistribute weight, should not be attempted as this may cause derailment.

MAXIMUM SPEED PERMITTED WITH CERTAIN EQUIPMENT	MPH
Trains handling wooden pile-drivers; locomotive cranes with boom disconnected and heavy end forward; steam shovels and ditchers transported on their own wheels; and car-top ditchers when blocking and tie-down cables are removed:	
On tangent main tracks, except.....	35
SPMW 4044.....	25
On tangent branch tracks.....	25
On all curves 5 MPH less than speed authorized. Where slow boards in place, 5 MPH less than shown on slow boards, except where speed indicated is 15 MPH or less be governed by slow boards.	
Trains handling locomotive cranes with boom disconnected and light end forward (must not be handled in this manner except in emergency):	
On tangent main tracks.....	20
On curves and on branch tracks.....	15
Trains handling locomotive cranes with boom in place, either end forward (to be handled in work train when practicable):	
On tangent main tracks.....	25
On curves and on branch tracks.....	15
Trains handling steel pile-drivers may make maximum freight train speed.	
Trains handling relief outfit with steam derrick:	
On tangent main tracks.....	35
On tangent branch tracks, except.....	25
(Relief outfits 7014 and 7025 must not be operated over R St., Sacramento, nor on any branch except Walnut Grove, Yuba City, and Dantoni branches.)	
On all curves, 5 MPH less than speed authorized. Where slow boards in place, 5 MPH less than shown on slow boards, except where speed indicated is 15 MPH or less be governed by slow boards.	

In the event electro-pneumatic brake is not functioning on trains No. 101 and 102, City of San Francisco, and it is necessary to operate the train with automatic brake, maximum speed must not exceed 90 MPH.

Passenger trains handling steel wheel box cars in series 5810 to 5874, and foreign line steel wheel box cars equipped for movement in passenger trains, but not equipped with high speed trucks, must not exceed 60 MPH.

Wooden equipment must not be handled in regular passenger trains.

Extra passenger trains handling wooden coaches or chair cars must not exceed 40 MPH.

Maximum speed of deadhead equipment or passenger trains with standard cabooses is 50 MPH.

No. 442 (CCM) may make maximum speed of 50 MPH using ordinary box cars, in territory where maximum freight and mixed train speed is shown as 40 MPH.

Trains consisting of engine and caboose only restricted to freight train speed.

Where mail, papers, or ice are to be dispatched from passenger trains at points where train does not stop, slow down sufficiently to permit safe dispatch without hazard, and stop at such stations for this purpose if train is moving on adjoining track between passenger train and point of exchange.

Trains handling logs loaded on flat or logging cars must not exceed 25 MPH on tangent track and 20 MPH on curves.

Trains handling locomotive cranes with flexible or swivel truck trailing, must not exceed 18 MPH.

Freight trains passing stations where passenger trains are standing must not exceed 15 MPH.

**RULE 7 (B).** Yardmen must use green flag by day and green light by night in giving proceed signals for movement of trains at Sacramento and Roseville, except that at Roseville proceed signal for movement from Tehama line yellow flag by day and yellow light by night must be used.

**RULE 10 (J).** Round yellow slow boards apply to Diesel-powered Streamliner Nos. 101 and 102.

Slow boards placed to the right of track in current of traffic direction but with one track intervening:

Eastward at MP 89.41 Sacramento bears figures 25-15,

Westward at MP 106.73 Roseville bears figures 20-15,

Westward at MP 90.81 Sacramento bears figures 10.

Slow boards placed to the left of track in current of traffic direction but with one track intervening:

Eastward at MP 104.37 Roseville bears figures 20-15.

**RULE 14 (e).** As specified below, — — — — — will be indication that flagman may return from east as prescribed by Rule 99.

Roseville on Roseville-Tehama Line.

Brighton on Sacramento-Placerville Line.

**RULE 82 (A).** Crews arriving Roseville on Nos. 101, 102 and 201 may assume corresponding schedule leaving Roseville without clearance, except when operating as section of a schedule.

Regular trains from Western Division at Brighton may assume corresponding schedules, or sections of schedules, on Sacramento Division without clearance.

Nos. 421, 423 and 425 and sections of those schedules from Western Division at Brighton may continue display of indicators through to Roseville, and register at Roseville accordingly.

Third-class and extra trains to or from Western Division passing Sacramento, will not obtain clearance at Sacramento.

Trains to Western Division at Brighton, originating at Sacramento, may leave Sacramento with Western Division clearance only.

Trains enroute Western Division via Sacramento or Brighton originating at Roseville, must obtain two clearances, one endorsed Sacramento Division, the other endorsed Western Division. Train orders addressed to such trains at Roseville will apply the same as if addressed to them at Brighton or Sacramento.

**RULE 83 (A).** At the following stations, only the trains indicated will register:

Sacramento—Trains originating or terminating, except third-class and extra trains passing Sacramento to or from Western Division.

Sacramento, 12th St.—Eastward trains, via Brighton, and trains originating or terminating.

Roseville—All trains register at train-order office in yard office building, except between 11:00 PM and 8:00 AM, when first-class trains and trains of passenger equipment only will register at train-order office in passenger station. Operator at passenger station report arrival and departure of first-class trains to operator at yard office during those hours, and registration must be repeated for verification.

Antelope—All trains, except those originating in west yard, and except those terminating in east yard.

Brighton—Regular trains from Placerville Branch.

**RULE 83 (B).** At open train-order offices, trains may register by ticket as follows:

Sacramento, 12th St.—Eastward trains, via Brighton.

Roseville—All trains at train-order office in yard office building, except between 11:00 PM and 8:00 AM, when first-class trains and trains of passenger equipment only will register at train-order office in passenger station.

Antelope—First-class trains.

Folsom—Trains required to go to Folsom will register the same information as shown on register at Folsom Jct.

**RULE 93.** Yard limits in which the provisions of Rule 93 will apply are established at the following stations:

MP West		MP East
85.51	Sacramento .....	95.35
	“ (Walnut Grove Br.).....	93.09
	“ (Placerville Br.).....	94.93
131.60	“ (Polk line).....	136.33
102.04	Roseville (Eastward and No. 2 Track).....	110.83
102.04	“ (No. 1 and Westward Track).....	110.86
	“ (Tehama line).....	107.71
	Folsom .....	112.05
110.57	“ (Placerville Br.).....	111.38
148.19	Placerville .....	149.66
110.64	Walnut Grove.....	113.90
121.05	Isleton .....	122.32

Sacramento. Westward trains on station tracks must not pass fouling point of adjoining tracks unless proceed signal received from yardman at Second St.

Eastward trains and yard engines on station tracks must not pass fouling point of adjoining tracks unless proceed signal received from yardman at Sixth St., and again at Seventh St.

Westward trains on main track must not pass Seventh St. shanty (just west of Signal 891) unless proceed signal received from yardman.

Eastward trains on main track must not pass fouling point of crossover between main tracks, 400 feet east of Sacramento River Drawbridge unless proceed signal received from yardman at Second St., and must not pass first switch of crossover between main tracks west of Sixth St. shanty (1500 feet east of Sacramento River Drawbridge) unless proceed signal received from yardman at Sixth St.

The two center tracks, for entering and leaving station tracks are equipped with automatic block signals between Sixth St. and Seventh St. Signal 889 will display green aspect when route lined for direct movement to Sixth St., and yellow aspect when route lined for crossover movement to Sixth St. Signal 886 governs movements from station tracks 2, 3, 4 and 5 but does not indicate position of switch 20 feet east of the signal.

Roseville. Eastward trains except first-class, must not pass Dry Creek bridge unless proceed signal received from yardman.

Eastward first-class trains to Tehama line must make station stop with rear end clear of west drill track.

Westward trains except first-class, moving on westward main track, or on west drill or west yard tracks, must not pass fouling point of switch to westward main track just east of scale house (east of subway) unless proceed signal received from yardman.

Eastward trains finding Signal 1064 displaying stop indication must stop, and may proceed only when proceed signal received from yardman. Upper unit governs movement on No. 2 Track; lower unit governs movement to Tehama line.

Signal 1055 governs movement against current of traffic on eastward main track, and when such moves are authorized by yardmaster, trains stopped by this signal may proceed with caution not exceeding 4 MPH.

**RULE 95.** Train orders issued by Western Division under Form F, reading to or from Brighton will apply over the Sacramento Division into or out of Sacramento or Roseville.

**RULE D-97 (A).** Applies between Sacramento and Roseville and between Brighton and Elvas.



**RULE 98.** Railroad crossings at grade and drawbridges not interlocked:

**Sacramento.** WPRR at Front and R Sts.—Trains and engines must approach with caution expecting to find crossing occupied.

Switching and industry tracks in vicinity of Front and R Sts.—Ascertain that each crossing is clear before using.

**SNRy at Front and R Sts.**—Stop within 200 feet of crossing.

**Electric line at Front and M Sts.**—Stop and not proceed unless hand signal received from flagman on ground (green flag by day, green light by night).

**SNRy at 31st and R Sts.**—Stop before crossing.

**Roseville.** Eastward main track of Tehama line crosses No. 1 Track of Sparks line and west drill track at passenger station. Trains or engines moving in either direction on west drill track or against current of traffic on No. 1 Track may move over this crossing without stopping, provided crossing is seen to be clear and no train or engine approaching on intersecting line, and proceed signal is received from yardman.

**RULE 103 (A).** Trains and engines must stop and be preceded by flagman before crossing highways at:  
Isleton, on wharf spur.

**RULE 104.** The normal position of rigid switches at junctions:  
Citrus—Fair Oaks Br., for Placerville Br.

**RULE 104 (A).** Conductors and engine foremen must personally know that main track switches used by them are left locked when clearing main track for Streamliner Nos. 101 and 102.

**RULE 204.** Trains of Sacramento, Mountain and East Valley Subdivisions with the same conductor operating through Roseville may be issued train orders on one subdivision that affect their movement on either or another of these subdivisions, and when engine crew is changed or helper engine is added, copy of all orders must be delivered to such engineer by conductor.

**RULE 221.** Eastward and westward first-class trains, and trains from Roseville enroute to Western Division will not obtain clearance at Sacramento, 12th St.

Trains originating or terminating at Sacramento not enroute to or from Western Division need not obtain clearance at Sacramento, 12th St.

**Roseville**—Train-order office located in yard office building is open continuously. Train-order office in passenger station is open from 11 PM to 8 AM daily, and is train-order office for first-class trains and trains of passenger equipment only. Between 11 PM and 8 AM first-class trains and trains of passenger equipment will receive clearance at passenger station and not at yard office.

**Antelope**—Only trains originating need obtain clearance.

No. 518 and No. 519 must go to train-order office Folsom and must obtain clearance when operator is on duty.

**RULE D-251.** Applies to the following tracks:

Eastward track Sacramento to Roseville.

Eastward track Brighton to Elvas.

Westward track Elvas to Sacramento.

Westward track Sacramento to Davis train-order office (Western Division) provided proceed signal received from yardman at Front St., Sacramento, except will not supersede the superiority of No. 101.

### RULE 505. AUTOMATIC BLOCK SYSTEM

**Sacramento.** Eastward main track from a point 350 feet east of Sacramento River Drawbridge to Signal 890 at Seventh St., is not protected by block signals. All trains must proceed with caution between these points.

#### SPECIAL SIGNALS

**Sacramento.** Movements over crossings at Front St. just east of Sacramento River Drawbridge governed by signals and derails operated by switchtender at Front St. (except derail on westward main track, which is operated by signal operator on bridge), and do not indicate position of switches or occupancy of track between signals and crossing. Trains and engines moving on proceed indication of signals must see that switches are properly lined for them and that track is not obstructed by other cars or engines. Locations are as follows:

Westward main track—350 feet east of crossing.

Eastward main track—For movement against current of traffic, 350 feet from crossing.

Station tracks—350 feet from crossing. Green aspect for movement to westward main track; yellow aspect for movement through crossover to eastward main track.

Front St. track—100 feet from crossing of main tracks.

Pioneer Mill track—also governs movement to store lead.

No. 4 track—also governs movement to No. 5 track.

No. 6 track—also governs movement to No. 7 track.

If signals do not indicate "proceed", proceed signal from switchtender at Front St., yellow flag by day, yellow light by night may be accepted for movement.

### RULE 605. INTERLOCKING

**Sacramento River Drawbridge.** Eastward trains failing to receive green aspect in approach Signal 878 must stop west of city limit sign, 1030 feet east of Signal 878, unless semi-automatic signal at MP 88.4 indicates "proceed".

**Nineteenth Street, Sacramento**—At crossing of R Street track with WPRR.

Yard engines using industry spurs will give following signal from push button located on home signal 400 feet west of crossing.

To Valley Grocery spur, o — —.

To Bekins spur, — o —.

**Elvas**—Limits on Sacramento-Roseville line extend from interlocking home signal 1,400 feet west of tower to interlocking home signal 1,200 feet east of tower, and on Elvas-Polk line to interlocking home signal at west switch Polk; and on Placerville Branch to interlocking home signal 600 feet east of junction switch.

Following switches and derails within interlocking limits are hand operated and must not be thrown until permission has been obtained from signal operator.

American Can Company spur switch and derail. Derail is electrically locked.

Crossover, middle siding, Elvas, to westward track, Elvas-Polk line.

Crossover, middle siding, Elvas, to eastward track, Polk-Elvas line.

West switch and derail, middle siding, Elvas.

Hopfen spur switch and derail.

Meister's spur switch and derail. Derail is electrically locked.

Permission must be obtained for each movement into or out of American Can Company and Meister spurs.

Hand signals as required by Rule 628 may be given from the tower instead of from the ground.

Whistle signals governing routes as follows:

To Roseville, — o o o o.

To Sacramento, — — — o.

To Polk, — — o o o.

To Elvas Siding, o o o — —.

To Third Track, o o — —.

To American Can Spur, — o —.

To Meister's Spur, o — —.

**Snodgrass Slough Drawbridge.** At MP 111.42 on Walnut Grove Branch.

**Georgiana Slough Drawbridge.** At MP 119.53 on Walnut Grove Branch.

**RULE 827. TRAIN INSPECTION**

Freight trains and light engines not equipped with tire coolers, on descending grade will stop 10 minutes at MP 123, Placerville Branch, for inspection and heat radiation, and trainmen must make careful inspection of all cars and enginemen inspect engines.

In addition to the designated stops for inspection, no freight train will make a continuous run of more than fifty miles without a stop for inspection, if in the judgment of conductor and engineer no stops are necessary.

**AIR BRAKE RULES**

**RULE 17.** Retainers must be used on freight and mixed trains on descending grades as follows:

On Placerville Branch:

- MP 148 to MP 146. One valve for every 120 Ms in train.
- MP 145 to MP 138. One valve for every 120 Ms in train.
- MP 136 to MP 130. One valve for every 140 Ms in train.
- MP 129 to MP 122. One valve for every 140 Ms in train.
- MP 117 to MP 112. One valve for every 150 Ms in train.

**FREIGHT TRAINS**

**RULE 22.** Hand brakes on outgoing trains at Roseville must not be released until engine is coupled to train or yard air is through train.

**RULE 25.** Rear end test must be made immediately prior to leaving Placerville on westward trains.

**RULE 33.** Gross tonnage of any freight train must not exceed the Ms per operative brake between the stations shown below: Placerville to Folsom Jct.—100 Ms.

**PASSENGER TRAINS**

**RULE 39.** Eastward passenger trains will not be required to make running test approaching interlocking at Elvas unless brake pipe has been separated.

**MISCELLANEOUS**

1. Take water only in emergency at Shingle Springs.
5. Stop sign at Roseville on circuit drive where switch leads into car repair tracks. All engines must stop at this sign and proceed with caution.

**Sacramento.** Stationmaster will inform conductor or member of crew when passenger train is ready to depart, and trainmen must be so distributed as to give proceed signal by hand or lamp. The use of communicating signal to start trains is not permitted.

10. Engines listed must not operate on tracks shown below:

Class of Engine	Restricted Tracks
AC.....	Sacramento... Umbrella sheds at passenger station

**LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT STANDARD CLEARANCE ON MAIN TRACK AND SIDINGS**

MP	Location	Description
88.54	Sacramento .....	Sacramento River Bridge.....Side
92.15	Elvas .....	American River Bridge.....Side (Placerville Branch)
122.3	East of White Rock	Rock cut.....Side
126.4	Latrobe .....	Rock cut.....Side
126.5	East of Latrobe...	Rock cut.....Side
128.6	East of Latrobe...	Rock cut.....Side (Walnut Grove Branch)
92.41	East of Baths.....	Bridge.....Side
111.42	Snodgrass Slough.	Bridge.....Side

**SPEED RESTRICTIONS FOR OTHER THAN MAIN TRACKS** With Caution Not Exceeding MPH

Through sidings, yard and other side tracks, crossovers, turnouts and slip switches except:.....	15
On "R" St. Sacramento, between Front St. and Brighton .....	10
On Golden State Cannery track, Isleton.....	10
On Mather Field spur.....	10
On back tracks or engine leads to Roundhouse—Sacramento .....	8
On American Can Company tracks, Elvas.....	8
On tracks serving McClellan Field (Planehaven)....	10
On spur to Government lumber yard and Camp Kohler—Walerga.....	10
Through any siding, crossover, turnout, or slip-switch with engine backing except.....	10
F-class engines backing through any switch.....	6

**SPEED RESTRICTIONS:** Maximum speed of Passenger trains must not exceed 50 MPH and Freight and Mixed trains 35 MPH except as otherwise provided for herein, or by bulletin, train order or fixed signal.

Maximum speed of any train with an engine not shown in Speed Restriction table, 35 MPH, and is further restricted to maximum speed shown for Freight and Mixed trains if less than 35 MPH.

Page No.	TERRITORY	WITH TRAIN — ENGINE RUNNING FORWARD									LIGHT ENGINE RUNNING FORWARD				ENGINE BACKING WITH TRAIN OR LIGHT			
		PASSENGER									FREIGHT AND MIXED	E P A Mt GS	T-26-32-37-40 F (if CCB*)	M T-1-8-9-23-28-31-36-57-58 C-2-4-5-8-9-10-18-19-26-27-28-29 F (if not CCB*) SP	C-15-17-32 TW Mk-2-4-10-11 AC AM-2 MM-3	E A T P C TW	Mk F Mt GS SP	M AC AM-2 MM-3 Gas-elec. cars
		P-8 (if CCB*) P-7-10-12 GS Mt	E A P-1-3-4-5-6-11 P-8 (if not CCB*)	T -26-32-37-40	AC-4-5-7-8-9-10-11-12 AC-8 (if CCB*)	T-1-8-9-23-28-31-36-57-58 Mk-5-6-7-8-9 F (if CCB*) Gas-elec. cars	M AM-2	C-2-4-5-8-9-10-18-19-26-27-28-29 TW Mk-2-4, F (if not CCB*) AC-1-2-3-6 (if not CCB*)	C-15-17-32 Mk-10-11 MM-3									
2	Sacramento MP 88.8 to MP 106.65 Roseville, except .....	60	60	60	55	50	45	40	35	40	45	40	35	30	30	25		
	MP 88.8-MP 90.16 .....	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
	MP 90.16-MP 93.33 .....	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25		
	MP 102.65-MP 103.25 .....	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45		
	MP 103.25-MP 105.1 .....	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
	MP 105.1-MP 106.65 Roseville, except .....	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
3	MP 106.65 Roseville to MP 88.8 Sacramento, except .....	60	60	60	55	50	45	40	35	40	45	40	35	30	30	25		
	Across Lincoln St. ....	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
	MP 106.65-MP 104.89 .....	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
	MP 104.89-MP 102.75 .....	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
	MP 92.07-MP 90.16 .....	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25		
	MP 90.16-MP 88.8 .....	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
3	MP 131.7 Polk and Elvas wye, except .....	40	40	40	40	40	40	40	35	35	40	40	35	30	30	25		
	Westward trains only MP 135.99-MP 135.24 .....	25	25	25	25	25	25	25	25	15	25	25	25	25	15	15		
	Over both legs Elvas wye .....	25	25	25	25	25	25	25	25	15	25	25	25	25	15	15		

SPECIAL INSTRUCTIONS — SACRAMENTO SUBDIVISION

STREAMLINER (EASTWARD)		STREAMLINER (WESTWARD)	
TERRITORY	STREAMLINER DIESEL POWER UNIT	TERRITORY	STREAMLINER DIESEL POWER UNIT
Sacramento MP 88.8 to Roseville MP 106.65, except .....	95	MP 106.65 Roseville to MP 88.8 Sacramento, except .....	95
MP 88.8-MP 90.16 .....	10	Across Lincoln St. ....	12
MP 90.16-MP 93.33 .....	25	MP 106.65-MP 104.89 .....	20
MP 93.33-MP 93.75 .....	65	MP 104.89-MP 102.75 .....	40
MP 102.65-MP 103.25 .....	60	MP 93.0-MP 92.07 .....	65
MP 103.25-MP 105.1 .....	40	MP 92.07-MP 90.16 .....	25
MP 105.1-MP 106.65, except .....	20	MP 90.16-MP 88.8 .....	10
Across Lincoln St. ....	12		

Page No.	BRANCH LINES TERRITORY	ENGINE RUNNING FORWARD WITH TRAIN OR LIGHT		ENGINE BACKING WITH TRAIN OR LIGHT
		Passenger	Freight	
2	Brighton-Folsom Jet. ....	30	30	20
	Folsom Jet.-Folsom .....	20	20	15
	Folsom Jet.-MP 122 .....	20	20	15
	MP 122-Placerville, except .....	15	15	15
	MP 139.0-MP 139.3 .....	12	12	12
3	Citrus-Fair Oaks .....	20	20	15
	Sacramento-Walnut Grove .....	20	20	15
	Walnut Grove-Isleton .....	15	15	15

SACRAMENTO SUBDIVISION

RATING OF ENGINES—In Ms of 1000 lbs. Back of Tender.

NOMINAL CLASS	ENGINE NUMBERS	Brighton and Roseville Sacramento and Roseville	Placerville to Folsom	Folsom to Placerville	Folsom to Brighton	Brighton to Folsom	Sacramento and Ileton
DES-1, 2, 3, 4, 5, 6, 7	1000 to 1022.....	3200	....	....	....	....	....
DES-100 to 107	1300 to 1395.....	4800	....	....	....	....	....
E-23	1500 and 1502.....	3350	970	580	2950	1800	2600
M-4	1617 to 1713.....	4300	1250	780	3750	2300	3400
M-6, 8	1721 to 1803, 1823 to 1825.....	5250	1550	990	4600	2850	4150
M-9, 11	1804 to 1822, 1826 to 1831 and 1836.....	5550	1650	1050	4850	3000	4400
M-11	1832 to 1835.....	5550	1650	1050	4850	3000	4400
T-1	2242 to 2271.....	3850	1100	700	3350	2100	3100
T-8, 9	2161, 2174 and 2178.....	2750	790	480	2400	1450	2100
T-23	2301 to 2310.....	5550	1650	1050	4850	3000	4400
T-26	2283 to 2299.....	4800	1400	860	4250	2700	3900
T-28, 31	2311 to 2362.....	6050	1800	1150	5300	3250	4800
T-32, 40	2363 to 2384.....	6150	1800(A)	1150(A)	5400(A)	3450(A)	5050(A)
T-36	2103.....	4050	1250	780	3550	2200	3150
T-37	2105 and 2106.....	5450	1650	1050	4800	2950	4250
T-57, 58	2385 and 2386.....	4950	1500	940	4350	2650	3850
P-1, 3, 5	{2408, 2411 to 2413, 2416 to 2418, 2423, 2425 to 2435, 2437 to 2452, 2459 and 2460}	4850	1350	810	4300	2550	3800
P-1	2400, 2403 to 2407 and 2415.....	4850	1350	810	4300	2550	3800
P-4	2401, 2402, 2409, 2410, 2414, 2419, 2420, 2422, 2424 and 2436	5350	1500	900	4750	2800	4150
P-6	2453, 2454 and 2458.....	6100	1800	1100	5350	3300	4750
P-7	2476 and 2477.....	6500	1950	1200	5700	3500	5050
P-8, 10	2461 to 2474, 2478 to 2483.....	6750	....	....	....	....	....
P-8, 10	2475, 2484 to 2491.....	6750	....	....	....	....	....
P-11	3100 to 3109.....	5300	1550	970	4650	2850	4100
P-12	3120 to 3129.....	7000	....	....	....	....	....
C-5, 8, 9, 10, 26 to 29	2513 to 2599, 2624 to 2860, 3440 to 3469.....	6650	2000	1300	5800	3550	5200
C-15, 32	2500, 2505 to 2507.....	4250	1300	820	3750	2300	3300
C-17	2510 and 2511.....	5200	1600	1050	4600	2850	4050
C-18	3400 to 3409.....	6050	1850	1200	5350	3300	4750
C-19	3410 to 3426.....	6300	1900	1250	5550	3450	4950
TW-1	2900 to 2913.....	5050	1500	980	4450	2700	3950
TW-2, 3	2932 to 2952.....	4050	1200	780	3550	2200	3200
TW-4, 6	2926 to 2931 and 2957.....	3850	1150	720	3400	2050	3000
TW-8	2914 to 2923.....	5650	1650	1100	4900	3000	4400
A-3	3029.....	3800	....	....	....	....	....
A-3	3025, 3036, 3052 and 3057.....	3800	....	....	....	....	....
A-6	3000 to 3003.....	4750	....	....	....	....	....
Mk-2, 4	3201 to 3240.....	7650	....	....	....	....	....
Mk-5, 6	3241 to 3277.....	8400	....	....	....	....	....
Mk-7, 8, 9	3300 to 3324.....	9200	....	....	....	....	....
Mk-10	3295.....	7100	....	....	....	....	....
Mk-11	3297 and 3298.....	6800	....	....	....	....	....
F-1	3600 to 3652.....	9650	....	....	....	....	....
F-3	3653 to 3667.....	11000	....	....	....	....	....
F-4, 5	3668 to 3769.....	11000	....	....	....	....	....
AM-2	3900 to 3911.....	10900	....	....	....	....	....
MM-3	3930 and 3931.....	12700	....	....	....	....	....
AC-1, 2, 3	4000 to 4048.....	13300	....	....	....	....	....
AC-4, 5	4100 to 4125.....	17300	....	....	....	....	....
AC-6 to 12	3800 to 3811, 4126 to 4294.....	18500	....	....	....	....	....
Mt-1, 3, 4, 5	4300 to 4376.....	8950	....	....	....	....	....
Mt-2	4385 to 4390.....	9750	....	....	....	....	....
GS-1, 2	4400 to 4415.....	9550	....	....	....	....	....
GS-3, 4, 5, 6	4416 to 4469.....	9900	....	....	....	....	....
SP-1, 2, 3	5000 to 5048.....	12950	....	....	....	....	....
Allowance for Empty and Underloaded Cars	Less than 45 Ms.....	6	3	3	6	6	
	45 Ms to 55 Ms.....	3	3	3	3	3	
	More than 55 Ms.....	0	0	0	0	0	

(A) Eng. 2371 not permitted to operate on these branches.

ENGINES FOR WHICH NO RATING IS SHOWN IN THE RATING OF ENGINES TABLE WILL NOT BE PERMITTED TO OPERATE IN THAT TERRITORY UNLESS AUTHORIZED BY SUPERINTENDENT.

**RULE 7 (B).** Yardmen must use green flag by day and green light by night in giving proceed signals for movement of trains at Roseville, except that proceed signal for movement from Tehama line, yellow flag by day and yellow light by night must be used.

**RULE 10 (J).** Round yellow slow boards apply to Diesel-powered Streamliner Nos. 101 and 102.

Slow boards placed to the right of track in current of traffic direction but with one track intervening:

Eastward at MP 106.91 Roseville bears figures 40 (round yellow board only),

Westward at MP 106.73 Roseville bears figures 20-15.

Slow boards placed to the left of track in current of traffic direction but with one track intervening:

Eastward at MP 104.37 Roseville bears figures 20-15.

Slow boards on No. 1 Track and on No. 2 Track between MP 111 and MP 133 are to the right of track for current of traffic movement.

Oval slow boards three-fourths mile east of east switch Truckee on No. 1 Track; and at west switch Colfax on No. 2 Track have figures 35 on upper left side, 30 on lower left side, and 20 on right side.

35 indicates speed allowed for passenger trains on tangent track.

30 indicates speed allowed for passenger trains on curves.

20 indicates speed allowed for all other trains, except that light engines may make allowable speed as shown in speed table.

**RULE 11.** Between Gold Run and Truckee from Nov. 1st to May 1st, train finding a fusee burning along or near track must stop, and then proceed with caution not exceeding 15 MPH for a distance of three-fourths mile.

**RULE 14 (e).** As specified below, — — — — — will be indication that flagman may return from east as prescribed by Rule 99.

Roseville on Tehama line.

**RULE 14 (1).** Westward trains will sound crossing whistle signal immediately after emerging from west portal of Tunnel No. 6, west of Donner.

**RULE 82 (A).** Crews ordered for No. 606 at Reno, may assume that schedule without clearance.

Crews arriving Roseville on Nos. 101 and 102 may assume corresponding schedule leaving Roseville without clearance, except when operating as section of a schedule.

**RULE 83 (A).** At the following stations, only the trains indicated will register:

Roseville—All trains register at train-order office in yard office building, except between 11:00 PM and 8:00 AM, when first-class trains and trains of passenger equipment only will register at train-order office in passenger station. Operator at passenger station report arrival and departure of first-class trains to operator at yard office during those hours, and registration must be repeated for verification.

Truckee—Trains originating or terminating.

Colfax—Trains originating or terminating.

**RULE 83 (B).** At open train-order offices, trains may register by ticket as follows:

Roseville—All trains at train-order office in yard office building, except between 11:00 PM and 8:00 AM, when first-class trains and trains of passenger equipment only will register at train-order office in passenger station.

**RULE 93.** Yard limits in which the provisions of Rule 93 will apply are established at the following stations:

MP West		MP East
102.04	Roseville (Eastward and No. 2 Track).....	110.83
102.04	" (No. 1 and Westward Track).....	110.86
	" (Tehama line).....	107.71
119.34	Newcastle (No. 2 Track).....	120.82
118.74	" (No. 1 Track).....	120.15
140.03	Colfax .....	142.94
169.94	Emigrant Gap.....	172.12
207.28	Truckee .....	209.09
241.63	Sparks .....	247.60

Yard limit boards located to left of track:

Approaching Truckee in both directions.

**Roseville.** Eastward trains except first-class, must not pass Dry Creek bridge unless proceed signal received from yardman.

Eastward first-class trains to Tehama line must make station stop with rear end clear of west drill track.

Westward freight trains on No. 1 Track must not pass Yosemite St. unless flashing yellow light is displayed in high special signal opposite yard office, and must not pass Signal 1067 unless proceed signal received from yardman.

Westward trains finding Signal 1067 displaying stop indication must stop, and may then proceed with caution if proceed signal received from yardman.

Westward trains except first-class, moving on westward main track, or on west drill or west yard tracks, must not pass fouling point of switch to westward main track just east of scale house (east of subway) unless proceed signal received from yardman.

Westward first-class trains and trains of passenger equipment, when engines are to be changed, must stop before passing Signal 1067.

Eastward trains finding Signal 1064 displaying stop indication must stop, and may proceed only when proceed signal received from yardman. Upper unit governs movement on No. 2 Track; lower unit governs movement to Tehama line.

**Sparks.** Semaphore Signal 2452 on signal bridge governs main-track movements on eastward main track. Lower arm of Signal 2452 on signal bridge governs diverging-route movement from eastward main track across westward track into freight yard. Dwarf light Signals 2453 and 2459 govern main track movements on westward main track.

Following main track not protected by block signals:

Eastward, from 1400 feet east of engine lead switch at MP 245.5 to Signal 2462.

Westward, from east switch of crossover forming end of double track to Signal 2459.

Light Signal 2455 governs movement from engine lead to eastward main track. When this signal indicates "stop," engine must after stopping at signal, proceed only on hand signal from yardman. Yardman must not give signal to engineer until trains moving on eastward main track have stopped or crossover switches are lined from eastward main track into freight yard, protecting movement.

**RULE D-97 (A).** Applies between Roseville and Sparks.

**RULE 98.** Railroad crossings at grade and drawbridges not interlocked:

**Roseville.** Eastward main track of Tehama line crosses No. 1 Track of Sparks line and west drill track at passenger station. Trains or engines moving in either direction on west drill track or against current of traffic on No. 1 Track may move over this crossing without stopping, provided crossing is seen to be clear and no train or engine approaching on intersecting line, and proceed signal is received from yardman.

**RULE 102.** Should a passenger train break in two or an emergency application of brakes occur while in motion on the grade between Colfax and Truckee, head brakeman will immediately go towards rear, close angle cock at opening if train has parted, set hand brakes, and turn up retainers on detached portion. After train is coupled air must be applied from engine before hand brakes and retainers are released.

If necessary to leave detached portion on main track, rear truck of detached portion ascending grade or lead truck of detached portion descending grade must be chained to rail in such manner as to derail car should they start.

**RULE 104 (A).** Conductors and engine foremen must personally know that main track switches used by them are left locked when clearing main track for Streamliner Nos. 101 and 102.

**RULE 204.** Trains of Sacramento and Mountain Subdivisions with the same conductor operating through Roseville may be issued train orders on one subdivision that affect their movement on either or another of these subdivisions, and when engine crew is changed or helper engine is added, copy of all orders must be delivered to such engineer by conductor.

**RULE 221. Roseville.** Train-order office located in yard office building is open continuously. Train-order office in passenger station is open from 11:00 PM to 8:00 AM daily, and is train-order office for first-class trains and trains of passenger equipment only. Between 11:00 PM and 8:00 AM first-class trains and trains of passenger equipment will receive clearance at passenger station and not at yard office

Train order signals at Emigrant Gap and Norden are light type signals identified by an illuminated sign "Train Order Signal" on the signal mast. When a train reaches a point approximately 200 feet from signal, if no train orders, indication will change from "stop" to "proceed." If signal is first seen at "proceed" indication, clearance must be obtained.

Light engines may leave Norden for Truckee as extras without obtaining clearance at Norden.

**RULE D-251.** Applies to the following tracks:  
No. 2 Track Norden to Truckee.

**RULE 505. AUTOMATIC BLOCK SYSTEM**

**Knapp.** Siding must not be entered if Signal 1646 on siding at fouling point west end, or Signal 1659 on No. 1 Track east end, when switch to siding is opened, displays red aspect, or is not lighted.

**Midas.** Push buttons near Signals 1559 and 1601.

Instructions for operation posted inside push-button box and in special instructions for all subdivisions.

**RULE D-508.** Signals govern movements in both directions on No. 1 Track and No. 2 Track between crossover at Emigrant Gap and Andover

Signals govern movements in both directions on No. 1 Track between MP 111.89 and Newcastle.

Rule 509 (F) as applied to single track, or 509 (J) will apply when these signals display stop indication for trains moving against the current of traffic.

**RULE 510.** The following block signals, equipped with triangular number plate displaying the letter "P", have included in their control limits some special protective device.

Eastward		Westward	
P-1438	Slide detector fence MP 144.5.....	P-1805	
P-1780	Slide detector fence MP 178.5.....	P-1789	
P-1788			
P-2000	Fire detector, snow sheds west end of tunnels 13 and 42 MP 200.....	P-2005	
P-2002			
P-2146	Slide detector fence MP 216.5.....	P-2181	
P-2164			
P-2220		P-2165	
	Slide detector fence MP 222.5.....	P-2239	

**SPECIAL SIGNALS**

**Floriston.** Light type special signal opposite station building applies to No. 1 Track only, and indicates condition of slide detector fence only and is not connected with block signal circuit. Lunar white aspect indicates track at slide detector fence safe for trains; red aspect requires that inspection must be made of track protected by slide detector fence before train passes the fence.

**RULE 535. SPRING SWITCHES**

Spring switches not equipped with facing point locks are located as follows, and speed indicated must not be exceeded while passing over the switches in facing movement, or in trailing through them:

Location	Normal Position	Maximum Speed Psgr.	Frnt.
Roseville... East end east drill track... No. 2 Track ..		15	15
Midas..... West end siding..... No. 1 Track ..		15	15

To avoid stopping on spring switch east end east drill track Roseville, trains on east drill must stop at fouling point if Signal 1074 east of switch displays stop indication. Movement against current of traffic must not be made over this switch until careful inspection of switch and switch points has been made.

**Midas.** Any movement against current of traffic must stop, and inspection made of switch points at spring switch west end Midas siding, before passing over.

**RULE 605. INTERLOCKING**

**Emigrant Gap—Limits as follows:**

On No. 1 Track from interlocking signal located 100 feet west of house track spur to Signal 1711, 500 feet west of turn-table.

On No. 2 Track from clearance of crossover to Signal 1716, 60 feet east of east switch of crossover.

Electrically operated derail located 60 feet west of interlocking signal west of house track spur switch on No. 1 Track.

When instructed to operate derail by hand, be governed by instructions on sign at derail.

East switch of crossover equipped with electric lock.

Derailed located at clearance on east lead of turn-table and equipped with electric lock.

Trainmen or enginemen will not unlock or throw the west switch of crossover when making crossover movement, until the east switch of crossover has been lined.

Trainmen or enginemen will not unlock or throw switch to east lead of turn-table until derail has been closed.

Westward movement from west lead of turn-table or from fire-train crossover will not be made until permission is given by operator.

**Norden.** Interlocking limits extend on No. 1 Track from westward signal 100 feet east of east switch Eder crossovers; and from westward signal 200 feet west of west switch Donner siding to signal bridge 775 feet west of Norden train-order office, and interlocking limits on No. 2 Track extend from signal bridge 775 feet west of Norden train-order office to westward signal 300 feet east of Eder crossovers. Both crossovers at Eder are under control of signal operator at Norden. Both switches of east crossovers are power operated, and both switches of west crossover are hand-throw switches, but equipped with electric locks which must be released by operator before they can be hand-thrown.

On No. 1 Track, westward movement governed by two-unit signal 100 feet east of Eder crossovers, upper unit for No. 1 Track and lower unit for diverging route through crossover. Eastward movement on No. 1 Track governed by single unit signal 100 feet west of Eder crossover.

On No. 2 Track eastward movement governed by two-unit signal 50 feet west of Eder crossovers, upper unit for No. 2 Track and lower unit for diverging route through east crossover. Westward movement on No. 2 Track governed by single unit signal 300 feet east of Eder crossovers.

When desired to use west crossover at Eder consult operator at Norden by phone to release electric lock. Train must not pass interlocking signal until both switches have been lined. Electric locks cannot be released with train standing between interlocking signals.

Telephones are located on shed post near eastward signal on No. 1 Track, and in shanty at east end of snowshed on No. 2 Track.

When instructed by signal operator to hand throw power operated switches, carefully follow instructions posted near telephones.

Fire Train Spur—Switch and derail hand operated, derail electrically locked and must not be thrown until permission has been obtained from signal operator.

Run-around Tracks—Enginemen on helpers left on run-around track must obtain permission from signal operator before lining switch to siding.

Spur track switches must not be lined for movement to siding without first obtaining permission from signal operator.

When permission is given by signal operator to eastward trains to pass interlocking signals located on main track and on siding east end of Norden, trains must wait ten minutes and then be preceded by flagman according to rules and follow flagman 10 minutes to next home signal or clear distant signal.

When interlocking home signal located approximately 300 feet west of west switch at Donner indicates "stop", westward trains will stop to clear west switch of Donner siding.

Two indication light signals on westward turn-table lead to No. 2 track, Norden. Signal is located on left side of track and 92 feet east of Signal 48-a, and is a repeater signal used in connection with Signal 48-a, governing westward movement from turn-table lead to No. 2 track.

Call-on signals on certain interlocking signal masts are normally dark, but when displaying flashing yellow light are authority to pass interlocking signal at stop without obtaining permission from operator to couple to train or engine; movement to be made with caution.

Within Norden interlocking trains may occupy main track without rear end protection. Signal operator must not authorize a train to pass interlocking signal in stop position until he has assured himself that conductor and engineer of all trains involved are fully acquainted with intended move so that proper protection will be provided.

When westward trains are moved against current of traffic Eder to Norden, no eastward train or light engine may be permitted to occupy No. 2 Track between signal bridge 775 feet west of train-order office and east switch Norden except for movement from No. 2 Track to siding.

**RULE 705. LETTER TYPE INDICATORS**

Indicators located as follows:

Illuminated Letter	On Signal	Approaching	Authorizes and Requires movement as follows
M.....	7ft.mast	Bowman.....	Proceed to Colfax
M.....	1408...	Colfax.....	Proceed to train-order office
S.....	1408...	Colfax.....	Enter siding
M.....	1514...	Gold Run.....	Proceed to train-order office
S.....	1514...	Gold Run.....	Enter siding
M.....	1642...	Knapp.....	Proceed to Emigrant Gap
S.....	1642...	Knapp.....	Enter siding
M.....	1656...	East end siding	
		Knapp.....	Enter eastward track and proceed to Emigrant Gap
M.....	1706...	Emigrant Gap...	Proceed to train-order office
S.....	1706...	Emigrant Gap...	Enter siding
M.....	2331...	Verdi.....	Proceed to Hinton
M.....	2201...	Hinton.....	Proceed to Truckee
M.....	2091...	Truckee.....	Proceed to train-order office
S.....	2091...	Truckee.....	Enter westward siding
S.....	1611...	Midas.....	Enter middle siding expecting to pass a train on main track
W.....	1601...	West end Midas..	Wait 15 mins. for following train or light engine to pass
M.....	1539...	Gold Run.....	Proceed to train-order office
S.....	1539...	Gold Run.....	Enter siding
S.....	1297...	Bowman.....	Enter westward siding expecting to pass a train on main track
W.....	1277...	West end Bowman	Wait 15 mins. for following train or light engine to pass

**RULE 825.** Portable rail skids are hung on posts at lower end of sidings at the following stations:

Midas                  Bowman                  Verdi                  Gold Run

When necessary to leave cars on any of these sidings permission must first be obtained from chief train dispatcher, after which rail skid must be placed on rail and leading wheel of first car in descending direction run onto the rail skid, and hand brakes set if brakes are operative before engine is detached.

Trains picking up cars from these sidings must remove rail skid and return it to proper post and lock it in place with switch lock.

**RULE 827. TRAIN INSPECTION**

Freight trains and light engines not equipped with tire coolers (except Mallets), on descending grade will stop between switches, as indicated, at following stations for inspection and heat radiation, where trainmen must make careful inspection of all cars, and enginemen inspect engines.

Eastward		Westward
Norden .....	10 mins.	Summit .....
Stanford .....	10 mins.	Troy .....
(Stop must be made west of culvert 202.31)		Yuba Pass.....
Truckee .....	10 mins.	Knapp .....
		(for heat radiation)
		Midas .....
		Gold Run.....
		Bowman... ..
		10 mins.

During storm conditions, when snow on ground, inspection may be made at Crystal Lake instead of Yuba Pass, and in that event a stop of five minutes must be made at Emigrant Gap for heat radiation. Trains may inspect at Auburn instead of Bowman in the event Bowman occupied, or if necessary to let a train by at Auburn.

Light engines equipped with tire coolers, on descending grade must stop at Truckee, Emigrant Gap and Colfax to inspect engine.

At points between Roseville and Sparks where freight trains stop for inspection, enginemen will drain water from main reservoirs and dirt collectors on engines.

In addition to the designated stops for inspection, no freight train will make a continuous run of more than fifty miles without a stop for inspection.

**AIR BRAKE RULES**

**RULE 17.** Retainers must be used on freight and mixed trains on descending grades as follows:

**Norden to Truckee.** One valve for every 120 Ms in train.

**Summit to Yuba Pass.** One valve for every 140 Ms in train.

**Yuba Pass to Loomis.** One valve for every 100 Ms in train.

Exception: If tonnage exceeds the amount of Ms specified for each retainer, trains may be handled Yuba Pass to Loomis with up to 110 Ms, and Norden to Truckee with up to 125 Ms per operative retainer if necessary.

Retainers must not be turned down on eastward freight trains at Truckee until engine has passed west switch of house track.

Retainers must be used on passenger trains on descending grades as follows:

**Norden to Truckee.** All retainers on solid express trains, and all accessible retainers on other trains.

**Summit to Loomis.** All retainers.

**FREIGHT TRAINS**

**RULE 22.** Hand brakes on outgoing trains at Roseville must not be released until engine is coupled to train or yard air is through train.

**RULE 25.** Rear end test on freight trains must be made immediately prior to leaving Norden on eastward trains; and at Truckee, Summit and Norden on westward trains.

**RULE 33.** Gross tonnage of any freight train must not exceed the Ms per operative brake between the stations shown below:

Norden to Truckee.....	125 Ms
Summit to Yuba Pass.....	140 Ms
Yuba Pass to Loomis.....	110 Ms

**PASSENGER TRAINS**

**RULE 37.** Streamliner, "CITY OF SAN FRANCISCO," carries 110 lb. brake pipe pressure and has graduated release; when necessary to use a steam engine to handle this train, such engine must also carry 110 lb. brake pipe pressure instead of the 90 lb. ordinarily carried when handling passenger trains. The high pressure side of the air compressor governor of the steam engine must be set for 140 lb. and the low pressure side for 130 lb.

When steam engine is to be cut off train, the automatic brake should be applied and left applied until engine is detached. Engineman on power cars should then open the double heading cock and apply electro-pneumatic brake.

**RULE 39.** Running test must be made on westward trains just after emerging from Tunnel 6 west of Donner.

**MISCELLANEOUS**

1. Take water only in emergency at Blue Canon.

Do not take oil at Gold Run except in emergency.

Eastward freight trains stopping at Colfax for water with helper engines in train, lead engine should stop clear of fouling point of siding.

Light engines in either direction must not take water at Emigrant Gap, Blue Canon, Knapp, or Colfax except in emergency, and then only sufficient to make next water tank.

Colfax helpers may return to Colfax for water, but if time permits should take full tank at Towle.

After taking water at water columns at Colfax or Truckee, spout must be left cleared, and spout of eastward column pointing east, and spout of westward column pointing west.

2. Eastward passenger trains stopping at Reno, do so clear of Virginia Street.

Eastward trains will approach crossing at Colfax with caution when westward trains are in the vicinity of the crossing.

4. Helper service:

On trains with three AC class engines from Roseville, first helper will be placed four cars ahead of caboose, and the second separated from the first by eight cars.

Single engine freight trains requiring helper from Colfax must cut helper in at least one car ahead of caboose.

Westward freight trains cutting out helpers at Summit will observe car marker boards and make stop accordingly. If cars other than caboose are to be coupled, helper will shove rear of train to a coupling, then stretch train to insure coupling properly made, after which rear end test must be made. Trainmen will then turn up retainers, after which they will notify enginemen they are ready to move to eating house.

5. Stop sign at Roseville on circuit drive where switch leads into car repair tracks. All engines must stop at this sign and proceed with caution.

10. Storage tanks of Standard Oil Company near tracks at MP 107.9 between Roseville and Rocklin, flues of engines must not be sanded until engine has passed this point.

## 10. ENGINES LISTED MUST NOT OPERATE ON TRACKS SHOWN BELOW:

Class of Engine	RESTRICTED TRACKS
F, AO, Mk, Mt, GS...	Auburn, Nevada St. Spurs.
"	Clipper Gap..... Team track east of road crossing
"	Colfax..... Material spur in west yard.
"	Rocklin..... Team and house tracks.
"	Loomis..... House track, Tracks 1, 2 and 3, and Pacific spur.
"	Penryn..... Fruit spurs west of station.
"	Newcastle..... Tracks 3, 4 and 7 beyond end of curve, or switch to lumber spur.
"	Auburn..... Standard Oil spur and High line.
"	New England Mills. Spur, west of tool house.
"	Magra..... Spur.
"	Alta..... Spur.
"	Towle..... Spur.
"	Yuba Pass..... Spurs.
"	Crystal Lake..... Spur on south side No. 2 Track.
Engines heavier than 200,000 pounds on drivers.....	Cisco..... Campbell spur.
"	Troy..... Lumber spur.
"	Summit..... Lumber spur.
"	Truckee..... Hotel spur; Standard Oil spur; Associated Oil spur; Hobart circle; Hobart team; Pat Henry spur.
"	Boca..... House track and corral.
"	Floriston..... Mill track and house track.
"	Verdi..... House track.
"	Mogul..... Spur.
"	Calvada..... Spur.
AC-4-5-6-7-8-10-11-12.	Colfax..... Corral track west of corral; bunk spur; house track and house lead east of freight house; team track beyond east end of freight house platform; scale track.
Engines heavier than 200,000 pounds on drivers.....	Auburn..... House track.

11. Tracks between Roseville and Sparks numbered, and unless otherwise authorized, will be used as double track as follows:

- No. 1 westward trains, via Auburn and
- No. 2 eastward trains, via Auburn, Nevada Street.

14. From May 1 to Nov. 1, sprinklers will be placed in service on westward freight trains and light engines, Norden to Loomis, and on eastward freight trains and light engines Norden to Truckee.

Sprinklers are to be kept open while train is in motion; where long stops are made they will be closed temporarily to avoid waste of water.

## 24. Minimum clearances for rotary plows:

Rotary snow plows 7210 and 7222 equipped with wings will not clear rock cut on No. 2 Track 700 feet east of MP 155, nor rock cut on No. 1 Track at MP 158.4, nor snow sheds and tunnels when wings are extended.

It will be necessary for rotary snow plows 7210 and 7222 to stop for "Leave siding signal" at west end Midas siding, and lay this signal down before passing it.

All rotaries will not properly clear ground throw switches with switch lamps and it will be necessary to remove switch lamps before passing and then replace them.

Rotary snow plows must come to a stop when a train or engine is passing on adjacent track.

Rotary snow plows equipped with wide wings must not pass other rotaries so equipped, on adjacent track until it is known that proper clearance exists.

Flangers operating in snow territory must raise flanger blades and stop while train or engine is passing on adjacent track.

## OPERATION OF TURNTABLES

26. Yellow light signals on leads from turntable at Norden. These signals will indicate route to be used from turntable. If no indication visible when engine is ready to leave turntable, telephone signal operator at Norden for instructions.

Before moving onto table from any lead, table must be lined so that engine will enter from rail lock end only. Engines when backing and approaching table on lead from eastward siding east end will stop to clear table and fireman, after properly lining and locking table, will signal engineer to move onto table by green light located on engineer's side of lead. Operation of green light controlled by push button located on post of turntable shed on engineer's side. This signal does not indicate position of turntable or turntable lock.

Marker posts are placed on each end of the Norden turntable to aid in spotting engines. AC class engines must be spotted with center of cab door directly opposite a marker post to avoid couplers striking concrete piers when turning.

Enginemen must see that knuckles on both ends of engine are closed before turning engine.

Properly line table and reset rail locks before moving engine on or off table and enginemen must know that it is properly lined before attempting to move engine on table.

Normal position turntables will be as follows:

- Emigrant Gap.... East approach, with motor on east end.
- Norden..... East approach to eastward track.

Trainmen and enginemen using these turntables must leave them lined as shown above.

Engineer or fireman, preferably engineer, must remain in the cab of engine at all times when engines are being turned at Norden and Emigrant Gap.



## SPECIAL INSTRUCTIONS—MOUNTAIN SUBDIVISION

LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT STANDARD CLEARANCE  
ON MAIN TRACK AND SIDINGS

MP	Location	Description
<b>(ROSEVILLE-SPARKS—EASTWARD)</b>		
111.21	East of Rooklin	Antelope Creek Bridge.....Side
114.2	East of Rooklin	Tunnel No. 15.....Side and Overhead
114.7	East of Rooklin	Tunnel No. 16.....Side and Overhead
117.3	East of Lincoln Ave., Penryn	Tunnel No. 17.....Side and Overhead
120.5	East of Newcastle	Tunnel No. 18.....Side and Overhead
122.7	East of Newcastle	Tunnel No. 19.....Side and Overhead
123.1	East of Newcastle	Tunnel No. 20.....Side and Overhead
124.6	East of Nevada St., Auburn	Tunnel No. 21.....Side and Overhead
131.2	East of Bowman	Tunnel No. 22.....Side and Overhead
132.7	East of Clipper Gap	Tunnel No. 23.....Side and Overhead
132.9	East of Clipper Gap	Tunnel No. 24.....Side and Overhead
133.1	East of Clipper Gap	Tunnel No. 25.....Side and Overhead
133.3	East of Clipper Gap	Tunnel No. 26.....Side and Overhead
133.8	East of Clipper Gap	Tunnel No. 27.....Side and Overhead
134.8	East of Applegate	Tunnel No. 28.....Side and Overhead
135.9	East of Applegate	Tunnel No. 29.....Side and Overhead
138.7	East of New England Mills	Tunnel No. 30.....Side and Overhead
139.2	East of New England Mills	Tunnel No. 31.....Side and Overhead
139.4	East of New England Mills	Tunnel No. 32.....Side and Overhead
141.7	Colfax, West of station	Signal 1414.....Side
152.2	Gold Run, East of station	Water Column.....Side
152.2	Gold Run, East of station	Oil Column.....Side
164.3	Knapp	Tunnel No. 1.....Side and Overhead
164.3	Knapp	Lower Water Column.....Side
166.6	Blue Canon, West of station	Signal 1656.....Side
166.6	Blue Canon, East of station	Water Column.....Side
171.43 to 201.27	Emigrant Gap to Andover	Snowsheds and signals in Snowsheds .....Side and Overhead
171.8	Emigrant Gap	Signal 1718.....Side
184.6	Troy, West end Summer Siding	Signal 1846.....Side
197.0	Eder, East of Snowshed	Signal 1978.....Side
<b>(SPARKS-ROSEVILLE—WESTWARD)</b>		
201.27 to 171.43	Andover to Emigrant Gap	Snowsheds and signals in Snowsheds .....Side and Overhead
200.22	Andover	Tunnel No. 13.....Side and Overhead
197.0	Eder, East of Snowshed	Signal 4L.....Side
195.7	West of Donner	Tunnel No. 12.....Side and Overhead
195.4	West of Donner	Tunnel No. 11.....Side and Overhead
195.1	West of Donner	Tunnel No. 10.....Side and Overhead
194.9	West of Donner	Tunnel No. 9.....Side and Overhead
194.3	West of Donner	Tunnel No. 8.....Side and Overhead
194.1	West of Donner	Tunnel No. 7.....Side and Overhead
193.7	West of Donner	Tunnel No. 6.....Side and Overhead
185.0	Troy	Signal 1846.....Side
181.0	West of Troy	Tunnel No. 4.....Side and Overhead
180.7	West of Troy	Tunnel No. 3.....Side and Overhead
166.0	Blue Canon, East of station	Water Column.....Side
164.3	West of Knapp	Tunnel No. 1.....Side and Overhead
152.2	Gold Run, East of station	Oil Column.....Side
141.7	Colfax, East of station	Signal 1425.....Side
141.7	Colfax, West of station	Water Column.....Side
141.7	Colfax, West of station	Signal 1415.....Side
122.66	West of Auburn	Rock Cut.....Side
122.52	West of Auburn	Rock Cut.....Side
122.2	West of Auburn	Bloomer Cut.....Side
122.0	West of Auburn	Rock Cut.....Side

SPEED RESTRICTIONS  
UNLESS OTHERWISE FURTHER RESTRICTED

Class of Engine	Station, Territory, Structure	MPH
All	Flangers, between Lawton and Loomis.....	30
All	Rotaries between Lawton and Loomis, except when pushed by engine.....	25
All	Fire trains, with water cars full.....	25
All	Fire trains with water cars less than three-quarters full. Water cars must be kept full when possible.....	20
All	Passing waiting room Norden just east of telegraph office.....	10

Trains consisting of engine and caboose only may operate at speed authorized for AC 4, 5, 6, 7, 8, 10 and 11 class engines running light between Roseville and Sparks.

SPEED RESTRICTIONS  
FOR OTHER THAN MAIN TRACKS  
With Caution  
Not Exceeding  
MPH

Through sidings, yard and other side tracks, crossovers, turnouts and slip-switches except.....	15
Through any siding, crossover, turnout, or slip-switch with engine backing except.....	10
F-class engines backing through any switch.....	6

## FIRE ALARM BOX LOCATIONS KNAPP TO ANDOVER

No. Box	LOCATION	MP
7	Emigrant Gap, East end of snow shed.....	171.6
8	East of Signal 1725.....	172.5
9	At Signal 1735, east of Smart.....	173.7
12	One mile east of Smart.....	174.2
13	Crystal Lake, near east switch.....	178.0
14	Crystal Lake, near section house.....	178.4
15	Crystal Lake, west end of shed No. 9.....	178.6
16	Crystal Lake, slide detector fence.....	178.7
17	West end Butte Canyon Bridge.....	178.9
18	East end of shed No. 10.....	179.1
19	Opposite section house at Cisco.....	180.3
21	At Signal 1841, east of Cisco.....	184.0
22	West of west switch No. 1 track, Troy.....	185.5
23	Troy, middle siding.....	185.8
24	Troy, middle siding.....	186.1
25	Troy, east switch of middle siding.....	186.3
26	East end lower Cascade Bridge.....	186.8
27	East end upper Cascade Bridge.....	187.6
28	West end snow shed, west of Norden.....	191.8
29	No. 1 track Norden, east of cook house.....	192.5
31	No. 1 track Norden, Summit crossovers.....	193.0
32	No. 1 track, west of Tunnel 6.....	193.6
33	No. 1 track, east of Tunnel 6.....	194.2
34	No. 1 track, east of Tunnel 8.....	194.7
35	No. 1 track, east of Tunnel 10.....	195.2
36	No. 1 track, east of Tunnel 11.....	195.7
37	No. 1 track, on top of Tunnel 12.....	195.8
38	No. 1 track, east switch Donner.....	196.5
39	Snow shed Eder crossovers.....	197.7
41	West end of shed No. 46.....	198.0
42	West end of shed No. 47.....	198.6
43	East end of shed No. 47.....	199.0
44	West of Tunnel 13.....	200.0
45	Fire Detector, west portal Tunnel 13.....	200.0
46	Opposite Andover section house.....	200.5
47	Snow shed Andover crossovers.....	201.1
48	Fire Detector, Andover crossovers.....	201.1
49	Norden turntable house.....	192.1
51	No. 2 track, east switch, runaround track.....	192.6
52	No. 2 track Norden, road crossing.....	193.0
53	No. 2 track Norden, east switch.....	193.2
54	No. 2 track east portal Tunnel 41.....	195.5

Code signals following box numbers are as follows:

One—East. Two—West. Three—Broken rail. Four—Track men.  
Five—slide. Six—Fire.

## SPECIAL AUTOMATIC ALARM BOXES

8 Slide, east end Crystal Lake shed No. 2 track.  
14 Fire, shed west end Tunnels No. 13 and No. 42, Andover.

**SPEED RESTRICTIONS:** Maximum speed of Passenger trains must not exceed 50 MPH and Freight and Mixed trains 35 MPH except as otherwise provided for herein, or by bulletin, train order or fixed signal.

Maximum speed of any train with an engine not shown in Speed Restriction table, 35 MPH, and is further restricted to maximum speed shown for Freight and Mixed trains if less than 35 MPH.

Page No.	TERRITORY	WITH TRAIN — ENGINE RUNNING FORWARD								LIGHT ENGINE RUNNING FORWARD				ENGINE BACKING WITH TRAIN OR LIGHT			
		PASSENGER								FREIGHT AND MIXED	E P A Mt GS	T-26-32-37-40 F (if CCB*)	M T-1-8-9-23-28-31-36-57-58 C-2-4-5-8-9-10-18-19-26-27-28-29 TW Mk-2-4-10-11 AC AM-2 MM-3 SP F (if not CCB*)	C-15-17-32 Mk-10-11 MM-3	E A T P C TW	Mk F Mt GS SP	M AC AM-2 MM-3 Gas-elec. cars
		P-8 (if CCB*)	E A P-1-3-4-5-6-11 P-7-10-12 GS Mt	T -28 -32 -37 -40	AC-4-5-7-8-9-10-11-12 AC-6 (if CCB*)	T-1-8-9-23-28-31-36-57-58 Mk-5-6-7-8-9 F (if CCB*) SP Gas-elec. cars	M AM-2	C-2-4-5-8-9-10-18-19-26-27-28-29 TW F (if not CCB*) AC-1-2-3-6 (if not CCB*)	C-15-17-32 Mk-10-11 MM-3								
4	MP 106.65 Roseville to Colfax MP 141.7, except... No. 2 Track	40	40	40	40	40	40	40	35	35	35	35	30	20	20		
	MP 106.65-MP 107.66..... No. 2 Track	20	20	20	20	20	20	20	15	20	20	20	20	15	15		
	MP 141.7-MP 208.87 East of Truckee, except... No. 2 Track	35	35	35	35	35	35	35	35	20	35	35	30	15	15		
	On curves..... No. 2 Track	30	30	30	30	30	30	30	30	20	30	30	30	15	15		
	MP 208.87 to Sparks (Dispr. Off.), except..... No. 2 Track	40	40	40	40	40	40	40	35	35	35	35	30	25	20		
	MP 238.88-MP 240.93..... No. 2 Track	40	40	40	40	40	40	40	35	30	35	35	30	20	20		
	MP 242.1 to 244.0 (Reno)..... No. 2 Track	20	20	20	20	20	20	20	20	20	20	20	20	15	15		
MP 244.16-MP 244.97, except..... No. 2 Track	40	40	40	40	40	40	40	35	20	40	40	35	30	15			
Through Sparks yard..... No. 2 Track	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
5	Sparks (Dispr. Off.) to MP 209.1 Truckee, except... No. 1 Track	40	40	40	40	40	40	40	35	35	35	35	30	25	20		
	Through Sparks yard..... No. 1 Track	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
	MP 244.0-MP 242.1 (Reno)..... No. 1 Track	20	20	20	20	20	20	20	20	20	20	20	20	15	15		
	MP 240.93-MP 238.88..... No. 1 Track	40	40	40	40	40	40	40	35	30	35	35	30	20	20		
	MP 209.1-MP 113.26 Loomis, except..... No. 1 Track	35	35	35	35	35	35	35	35	20	30	30	30	15	15		
	On curves..... No. 1 Track	30	30	30	30	30	30	30	30	20	30	30	25	15	15		
	MP 113.26-MP 106.65 Roseville, except..... No. 1 Track	50	50	50	50	50	50	45	40	35	45	40	35	30	25		
	MP 111.27-MP 111.03..... No. 1 Track	35	35	35	35	35	35	35	35	35	35	35	35	15	15		
MP 108.02-MP 106.65..... No. 1 Track	20	20	20	20	20	20	20	20	15	20	20	20	15	15			

STREAMLINER (EASTWARD)			STREAMLINER (WESTWARD)		
TERRITORY	STREAMLINER DIESEL POWER UNIT		TERRITORY	STREAMLINER DIESEL POWER UNIT	
MP 106.65 Roseville to Colfax MP 141.7, except..... No. 2 Track	70		Sparks (Dispr. Off.) to MP 209.1 Truckee, except..... No. 1 Track	44	
MP 106.65-MP 107.66..... No. 2 Track	20		Through Sparks yard..... No. 1 Track	15	
MP 107.66-MP 108.85..... No. 2 Track	40		MP 244.0-MP 242.1..... No. 1 Track	20	
MP 113.07-MP 141.64..... No. 2 Track	50		MP 240.93-MP 238.88..... No. 1 Track	40	
MP 141.7-MP 208.87 East of Truckee, except..... No. 2 Track	35		MP 209.1-MP 113.26 Loomis, except..... No. 1 Track	35	
On curves..... No. 2 Track	32		On curves..... No. 1 Track	32	
MP 208.87 to Sparks (Dispr. Off.), except..... No. 2 Track	44		MP 113.26-MP 106.65 Roseville, except..... No. 1 Track	70	
MP 238.88-MP 240.93..... No. 2 Track	40		MP 111.27-MP 111.03..... No. 1 Track	40	
MP 242.1-MP 244.0..... No. 2 Track	20		MP 108.02-MP 107.22..... No. 1 Track	40	
MP 244.16-MP 244.97, except..... No. 2 Track	40		MP 107.22-MP 106.65..... No. 1 Track	20	
Through Sparks yard..... No. 2 Track	15				

SPECIAL INSTRUCTIONS — MOUNTAIN SUBDIVISION

## MOUNTAIN SUBDIVISION

## RATING OF ENGINES—In Ms of 1000 lbs. Back of Tender.

NOMINAL CLASS	ENGINE NUMBERS	Roseville to Colfax via No. 2 Track	Colfax to Sparks via No. 2 Track Roseville to Colfax via No. 1 Track	Sparks to Truckee	Truckee to Summit
DES-1, 2, 3, 4, 5, 6, 7	1000 to 1022.....	650	350	1000	450
DES-100 to 107	1300 to 1395.....	1050	600	1600	750
E-23	1500 and 1502.....	770	450	1250	600
M-4	1617 to 1713.....	1050	690	1650	800
M-6, 8	1721 to 1803, 1823 to 1825.....	1300	870	2000	1000
M-9, 11	1804 to 1822, 1826 to 1831 and 1836.....	1400	930	2150	1050
M-11	1832 to 1835.....	1400	930	2150	1050
T-1	2242 to 2271.....	900	590	1400	680
T-8, 9	2161, 2174 and 2178.....	630	370	1000	490
T-23	2301 to 2310.....	1350	920	2100	1050
T-26	2283 to 2299.....	1150	750	1800	870
T-28, 31	2311 to 2362.....	1500	1000	2350	1150
T-32, 40	2363 to 2384.....	1450	970	2300	1100
T-36	2103.....	1000	630	1550	810
T-37	2105 and 2106.....	1350	840	2100	1050
T-57, 58	2385 and 2386.....	1200	760	1900	980
P-1, 3, 5	{2408, 2411 to 2413, 2416 to 2418, 2423, 2425 to 2435, 2437 to 2452, 2459 and 2460}	1100	700	1800	950
P-1	2400, 2403 to 2407 and 2415.....	1100	700	1800	950
P-4	2401, 2402, 2409, 2410, 2414, 2419, 2420, 2422, 2424 and 2436	1250	780	2000	1050
P-6	2453, 2454 and 2458.....	1450	890	2300	1150
P-7	2476 and 2477.....	1600	980	2500	1250
P-8, 10	2461 to 2474, 2478 to 2483.....	1550	990	2550	1350
P-8, 10	2475, 2484 to 2491.....	1550	990	2550	1350
P-11	3100 to 3109.....	1250	770	2000	1000
P-12	3120 to 3129.....	1600	1000	2600	1400
C-5, 8, 9, 10, 26 to 29	2513 to 2599, 2624 to 2860, 3440 to 3469.....	1700	1150	2600	1300
C-15, 32	2500, 2505 to 2507.....	1050	660	1650	850
C-17	2510 and 2511.....	1300	850	2050	1100
C-18	3400 to 3409.....	1550	980	2350	1250
C-19	3410 to 3426.....	1600	1000	2450	1300
TW-1	2900 to 2913.....	1250	790	1950	1000
TW-2, 3	2932 to 2952.....	1000	620	1550	800
TW-4, 6	2926 to 2931 and 2957.....	940	570	1450	740
TW-8	2914 to 2923.....	1450	970	2200	1250
A-3	3029.....	880	500	1400	680
A-3	3025, 3036, 3052 and 3057.....	920	520	1500	710
A-6	3000 to 3003.....	1100	650	1750	860
Mk-2, 4	3201 to 3240.....	1900	1250	2950	1600
Mk-5, 6	3241 to 3277.....	2100	1400	3250	1850
Mk-7, 8, 9	3300 to 3324.....	2300	1500	3500	2000
Mk-10	3295.....	1800	1150	2750	1450
Mk-11	3297 and 3298.....	1750	1100	2650	1400
F-1	3600 to 3652.....	2450	1650	3750	2100
F-3	3653 to 3667.....	2750	1850	4300	2400
F-4, 5	3668 to 3769.....	2750	1850	4300	2400
AM-2	3900 to 3911.....	2700	1800	4200	2300
MM-3	3930 and 3931.....	3100	1950	4950	2550
AC-1, 2, 3	4000 to 4048.....	3400	2150	5200	2750
AC-4, 5	4100 to 4125.....	4450	2800	6800	3550
AC-6 to 12	3800 to 3811, 4126 to 4294.....	4800	2900	7300	3700
Mt-1, 3, 4, 5	4300 to 4376.....	2150	1400	3400	1850
Mt-2	4385 to 4390.....	2400	1450	3750	1900
GS-1, 2	4400 to 4415.....	2250	1450	3600	1950
GS-3, 4, 5, 6	4416 to 4469.....	2350	1550	3700	2050
SP-1, 2, 3	5000 to 5048.....	3250	2050	5050	2650
Allowance for Empty and Underloaded Cars	Less than 45 Ms.....	6	3	6	3
	45 Ms to 55 Ms.....	3	3	3	3
	More than 55 Ms.....	0	0	0	0

ENGINES FOR WHICH NO RATING IS SHOWN IN THE RATING OF ENGINES TABLE WILL NOT BE PERMITTED TO OPERATE IN THAT TERRITORY UNLESS AUTHORIZED BY SUPERINTENDENT.

**RULE 7 (B).** Yardmen must use green flag by day and green light by night in giving proceed signals for movement of trains at Roseville and Gerber, except that at Roseville proceed signal for movement from Tehama line yellow flag by day and yellow light by night must be used.

**RULE 10 (J).** Slow boards placed to the left of track in current of traffic direction but with one track intervening:  
Eastward at MP 104.37 Roseville bears figures 20-15.

**RULE 14 (d).** As specified below, — — — — o, will be indication that flagman may return from west as prescribed by Rule 99. Tehama on Davis line.

**RULE 14 (e).** As specified below, — — — — — will be indication that flagman may return from east as prescribed by Rule 99.  
Roseville on Tehama line.  
Berg on Yuba City Branch.

**RULE 82 (A).** Crews ordered for No. 527 at Stirling City may assume that schedule without clearance.

Crews arriving Roseville on No. 201 may assume corresponding schedule leaving Roseville without clearance except when operating as section of schedule.

**RULE 83 (A).** At the following stations, only the trains indicated will register:

Roseville—All trains register at train-order office in yard office building, except between 11:00 PM and 8:00 AM, when first-class trains and trains of passenger equipment only will register at train-order office in passenger station. Operator at passenger station report arrival and departure of first-class trains to operator at yard office during those hours, and registration must be repeated for verification.  
Marysville, Chico—Trains originating or terminating.

**RULE 83 (B).** At open train-order offices, trains may register by ticket as follows:

Roseville—All trains at train-order office in yard office building, except between 11:00 PM and 8:00 AM, when first-class trains and trains of passenger equipment only will register at train-order office in passenger station.

**RULE 93.** Yard limits in which the provisions of Rule 93 will apply are established at the following stations:

MP West		MP East
102.04	Roseville (Eastward and No. 2 Track).....	110.83
102.04	" (No. 1 and Westward Track).....	110.86
	" (Tehama line).....	107.71
138.75	Marysville.....	143.94
	" (Oroville Br.).....	124.44
	" (Dantoni Br.).....	144.20
182.61	Chico.....	185.36
	" (Stirling City Br.).....	187.06
146.40	Oroville.....	147.95
146.78	Yuba City.....	148.24

Yard limit boards located to left of track:  
Eastward approaching Gerber.

**Roseville:** Eastward first-class trains to Tehama line must make station stop with rear end clear of west drill track.

Westward trains except first-class, from Tehama line must not pass Signal 1065 unless proceed signal received from yardman.

Westward trains finding Signal 1065 displaying stop indication must stop, and may then proceed with caution if proceed signal received from yardman.

Westward trains except first-class, moving on westward main track, or on west drill or west yard tracks, must not pass fouling point of switch to westward main track just east of scale house (east of subway) unless proceed signal received from yardman.

Eastward trains finding Signal 1064 displaying stop indication must stop, and may proceed only when proceed signal received from yardman. Upper unit governs movement on No. 2 Track; lower unit governs movement to Tehama line.

**RULE 98.** Railroad crossings at grade and drawbridges not interlocked:

**Roseville.** Eastward main track of Tehama line crosses No. 1 Track of Sparks line and west drill track at passenger station. Trains or engines moving in either direction on west drill track or against current of traffic on No. 1 Track may move over this crossing without stopping, provided crossing is seen to be clear and no train or engine approaching on intersecting line, and proceed signal is received from yardman.

**Chico.** SNRy at 9th St.—Move over crossing with caution.

**Yuba City.** SNRy at Bridge St., and at B St.—Stop within 200 feet of crossings.

**MP 186.6 on Stirling City Br.** SNRy crossing—Stop within 200 feet of crossing.

**RULE 103 (A).** Trains and engines must stop and be preceded by flagman before crossing highways at:

Clayton, on both spurs.  
Marysville, Fourth St. crossing on Old Cannery track.  
Wilson, at Wilson road crossing.

**RULE 104.** The normal position of rigid switches at junctions:  
Dantoni Jct....Dantoni Br., for Tehama line.  
Berg.....Yuba City Br., for siding.  
Marysville.....Oroville Br., for siding.  
Chico.....Stirling City Br., for yard track No. 1.

**RULE 204.** Trains of Sacramento and East Valley Subdivisions with the same conductor operating through Roseville may be issued train orders on one subdivision that affect their movement on either or another of these subdivisions, and when engine crew is changed or helper engine is added, copy of all orders must be delivered to such engineer by conductor.

**RULE 221.** Roseville—Train-order office located in yard office building is open continuously. Train-order office in passenger station is open from 11:00 PM to 8:00 AM daily, and is train-order office for first-class trains and trains of passenger equipment only. Between 11:00 PM and 8:00 AM first-class trains and trains of passenger equipment will receive clearance at passenger station and not at yard office.

**RULE 510.** The following block signals, equipped with triangular number plate displaying the letter "P", have included in their control limits some special protective device.

Eastward	ROSEVILLE-TEHAMA	Westward
P-1068	} Spring switch, end double track MP 106.88.....	P-1069
P-1070		P-1371
P-1344	High water detector, bridge 135.80.....	P-1371
P-1406	Spring switch west end siding Marysville.....	
P-1420	Fire detector, trestle 142.70.....	P-1437
P-1906	High water detector, bridge 191.83.....	P-1927

**RULE 516.** Overlap posts:  
Live Oak.....Eastward trains.....100 ft. west of station.

**RULE 535. SPRING SWITCHES**

Spring switches equipped with facing point locks are located as follows, and speed indicated must not be exceeded while trailing through them:

Location	Normal Position	MPH
Marysville, West end siding.....	Main track.....	15

Spring switches not equipped with facing point locks are located as follows, and speed indicated must not be exceeded while passing over the switches in facing movement, or in trailing through them:

Location	Normal Position	MPH
Roseville—End double track, Tehama line.....	Westward track	15

**RULE 605. INTERLOCKING**

**Binney Jct. Tower.** WPRR crossing of wye track and Tehama line main track.

Whistle signals:

Main track to or from Tehama — o o o o.  
Siding to or from Tehama o — — —.  
Siding to or from Oroville — — — o.  
Siding to or from west leg of wye o o o — —.  
Main track to or from west leg of wye — — o o o.  
Main track to or from east leg of wye o — —.

**REMOTE CONTROL INTERLOCKING**

**Tehama-Gerber**—Interlocking limits on main track extend from signal 398 feet west of Tehama junction switch on Davis line and signal 293 feet west of Tehama junction switch on Roseville line to signal 48 feet west of west switch No. 1 track Gerber yard. Interlocking limits on siding extend from west switch to dwarf semi-automatic signal 295 feet east of west switch Gerber siding.

Top unit of signal on Roseville line 293 feet west of Tehama junction switch governs movement on main track. Lower unit governs movement to Gerber siding.

Top unit of semi-automatic signal at west end siding Gerber governs movement to Davis line; lower unit governs movement to Roseville line.

East switch of crossover between main track and Gerber siding is equipped with an electric lock. Permission to move from siding to main track through this crossover must be obtained from the operator. The electric lock on the east switch must first be operated in accordance with instructions posted inside of door of electric lock located at switch, after which manually line the east switch and then line the west switch.

Trains using crossover from main track to siding must first manually line west crossover switch, then operate electric lock in accordance with instructions posted inside door of electric lock located at the east crossover switch after which manually line the switch.

Trains authorized to enter Gerber siding through crossover must have engine east of interlocking signal before electric lock can be operated.

**AUTOMATIC INTERLOCKING**

**Live Oak**—Crossing SNRy one-half mile east of Live Oak.

Trains must not exceed 30 MPH between home signal and crossing.

When trains are stopped by signals governing the use of automatic interlockings, flagman must be sent to crossing to operate clock-work time release. Release must not be operated when trains are between home signals or seen approaching on intersecting line.

After release has been operated, a red indicator light should be displayed over release and home signal should indicate proceed or red indicator on home signal must be displayed. Trains may then proceed.

If red indicator lights are not displayed, trains may proceed over crossing as provided by Rule 663.

Instructions for operating time release are posted on door of box.

**GENERAL REGULATIONS**

**RULE 825.** Track between station and Stirling City branch main track at Chico must be kept clear of cars.

**RULE 829.** Westward freight trains stopping at Chico to perform switching or to take water, must stop east of Sacramento Ave., or cut train at that point to permit the passage of traffic over tracks.

**RULE 836.** Cars must not be handled ahead of engine at any point between Stirling City and Chico on westward trip.

**RULE 827. TRAIN INSPECTION**

Freight trains and light engines not equipped with tire coolers, on descending grade will stop between switches, as indicated, at following stations for inspection and heat radiation, where trainmen must make careful inspection of all cars and enginemen inspect engines:

Westward at Doon 10 mins., Paradise 5 mins. (for heat radiation), and MP 192.6 on Stirling City Branch 10 mins.

In addition to the designated stops for inspection, no freight train will make a continuous run of more than fifty miles without a stop for inspection, except when conditions favorable, eastward freight trains taking water at Berg may run to Gerber without making additional stop for inspection, if in the judgment of conductor and engineer it is safe to do so, but must make inspection if stopped for other reasons.

**AIR BRAKE RULES**

**RULE 17.** Retainers must be used on freight and mixed trains on descending grades as follows:

Stirling City to MP 186. One valve for every 80 Ms in train.

**FREIGHT TRAINS**

**RULE 22.** Hand brakes on outgoing trains at Roseville must not be released until engine is coupled to train or yard air is through train.

**RULE 25.** Rear end test on freight trains must be made immediately prior to leaving Stirling City on westward trains.

**RULE 33.** Gross tonnage of any freight train must not exceed the Ms per operative brake Stirling City to Chico—80 Ms.

**MISCELLANEOUS**

1. Take water only in emergency at Tudor.

In valley territory engines may take oil and water without cutting off from train at any point except westward freight trains at Marysville.

After taking water at water columns at Marysville or Chico, spout must be left cleared, and spout of eastward column pointing east, and spout of westward column pointing west.

4. Helper service:

Two engines must not be coupled on Stirling City Branch. Helper engine must be cut back in train.

**10. ENGINES LISTED MUST NOT OPERATE ON TRACKS SHOWN BELOW:**

Class of Engine	RESTRICTED TRACKS
F, AC, Mk, Mt, GS...	Chico.....Priol warehouse spur; Reynolds warehouse spur; No. 3 and No. 4 tracks.
"	Durham.....Warehouse track.
"	Biggs.....Brick warehouse spur east end yard.
"	Marysville.....Strain warehouse—9th and B Sts.—(Engines must not enter warehouse)
F, AC.....	Clayton.....Stockton Fire Brick spur across highway.
Engines heavier than 210,000 pounds on drivers.....	Marysville.....Old Cannery spur.
"	Ewing.....Corral track
"	Lincoln.....Grain Growers elevator track.
Engines heavier than 200,000 pounds on drivers.....	Lincoln.....Gladding McBean tracks.
All engines.....	Chico.....Diamond Match Co. track at wye.
"	Marysville.....Rio Grande Oil spur off E St.—(use reach).
Engines heavier than C class.....	Marysville.....Within yard limits on Oroville line beyond Valley Meat corral track.
Engines heavier than Mt class.....	Erle.....On Government tracks between interchange tracks and Camp Beale.

**LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT STANDARD CLEARANCE ON MAIN TRACK AND SIDINGS**

MP	Location	Description
(BERG-WILSON)		
147.6	Yuba City.....	SNRy trolley wire, Bridge St..... Overhead
147.6	Yuba City.....	SNRy trolley wire, "B" St..... Overhead
156.6	Tudor.....	Water Tank.....Side

**SPEED RESTRICTIONS FOR OTHER THAN MAIN TRACKS**

	With Caution Not Exceeding MPH
Through sidings, yard and other side tracks, crossovers, turnouts and slip-switches except.....	15
On track to Camp Beale—Erle.....	15
Through any siding, crossover, turnout, or slip-switch with engine backing except.....	10
F class engines backing through any switch.....	6

**SPEED RESTRICTIONS:** Maximum speed of Passenger trains must not exceed 50 MPH and Freight and Mixed trains 35 MPH except as otherwise provided for herein, or by bulletin, train order or fixed signal.

Maximum speed of any train with an engine not shown in Speed Restriction table, 35 MPH, and is further restricted to maximum speed shown for Freight and Mixed trains if less than 35 MPH.

Page No.	TERRITORY	WITH TRAIN — ENGINE RUNNING FORWARD								LIGHT ENGINE RUNNING FORWARD				ENGINE BACKING WITH TRAIN OR LIGHT			
		PASSENGER								FREIGHT AND MIXED	E P A Mt GS	T-26-32-37-40 F (if CCB*)	M T-1-8-9-23-28-31-36-57-58 C-2-4-5-8-9-10-18-19-26-27-28-29 Mk-2-4 F (if not CCB*) AC-1-2-3-6 (if not CCB*)	C-15-17-32 Mk-10-11 MM-3	E A T P C TW	Mk F Mt GS SP	M AC AM-2 MM-3 Gas-elec. cars
		P-8 (if CCB*) P-7-10-12 GS Mt	E A P-1-3-4-5-6-11 P-8 (if not CCB*)	T -26 -32 -37 -40	AC-4-5-7-8-9-10-11-12 AC-6 (if CCB*)	T-1-8-9-23-28-31-36-57-58 Mk-5-6-7-8-9 F (if CCB*) SP Gas-elec. cars	M AM-2	C-2-4-5-8-9-10-18-19-26-27-28-29 Mk-2-4 F (if not CCB*) AC-1-2-3-6 (if not CCB*)	C-15-17-32 Mk-10-11 MM-3								
6	MP 106.65 Roseville and MP 175.00, except.....	60	60	60	55	50	45	40	35	40	45	40	35	30	30	25	
	MP 106.65-MP 106.79.....	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
	*Bear River bridge No. 126.88.....	60*	60	60	55*	50*	45	40*	35	40*	45*	40*	35*	30*	30*	25	
	MP 139.8 Marysville-MP 142.5.....	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
	MP 142.5-MP 153.00.....	50	50	50	50	50	45	40	35	35	40	40	35	30	30	25	
	Over SNRy crossing MP 152.3.....	30	30	30	30	30	30	30	30	30	30	30	30	30	30	25	
	MP 175-MP 213.8 Gerber, except.....	50	50	50	50	50	45	40	35	35	40	40	35	30	30	25	
	MP 182.15-MP 185.08.....	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
	*Deer Creek bridge No. 203.67.....	50*	50	50	50*	50*	45	40*	35	35*	40*	40*	35*	30*	30*	25	
	*Sacramento River bridge 210.82.....	50*	50	50	50*	50*	45	40*	35	35*	40*	40*	35*	30*	30*	25	
	MP 211.87 junction switch Tehama-MP 213.8.....	35	35	35	35	35	35	35	35	35	35	35	35	30	30	25	

\*AC-GS-F class engines are restricted to 25 MPH over structure.

Page No.	TERRITORY	ENGINE RUNNING FORWARD WITH TRAIN OR LIGHT		ENGINE BACKING WITH TRAIN OR LIGHT
		Passenger	Freight	
7	Dantoni Jet.-Dantoni.....	20	20	15
	Marysville-Oroville.....	20	20	15
	Berg-Yuba City.....	15	15	15
	*Across Sutter St., Teegarden Ave., Second St. and Teegarden Tract in Yuba City...	15	15	15
	Yuba City-Wilson, except.....	25	25	20
	MP 148.6-MP 148.8.....	25	18	18
	Chico-MP 188.75.....	30	25	20
	MP 188.75-Stirling City.....	20	12	12

\*Regulated by city ordinance.

EAST VALLEY SUBDIVISION

RATING OF ENGINES—In Ms of 1000 lbs. Back of Tender.

NOMINAL CLASS	ENGINE NUMBERS	Roseville and Gerber	Chico to Stirling City	Stirling City to Chico	Wilson and Berg	Dantoni Jet. and Dantoni	Marysville and Oroville
DES-1, 2, 3, 4, 5, 6, 7	1000 to 1022.....	3200	....	....	....	....	....
DES-100 to 107	1300 to 1395.....	4800	....	....	....	....	....
E-23	1500 and 1502.....	3350	270	580	2600	2600	2600
M-4	1617 to 1713.....	4300	430	830	3400	3400	3400
M-6, 8	1721 to 1803, 1823 to 1825.....	5250	530	980	4150	4150	4150
M-9, 11	1804 to 1822, 1826 to 1831 and 1836.....	5550	540	1020	4400	4400	4400
M-11	1832 to 1835.....	5550	570	1070	4400	4400	4400
T-1	2242 to 2271.....	3850	340	670	3100	3100	3100
T-8, 9	2161, 2174 and 2178.....	2750	250	500	2100	2100	2100
T-23	2301 to 2310.....	5550	550	1000	4400	4400	4400
T-26	2283 to 2299.....	4800	410	820	3900	3900	3900
T-28, 31	2311 to 2362.....	6050	600	1100	4800	4800	4800
T-32, 40	2363 to 2384.....	6150	645(A)	1150(A)	5050(A)	5050	....
T-36	2103.....	4050	400	750	3150	3150	3150
T-37	2105 and 2106.....	5450	510	980	4250	4250	4250
T-57, 58	2385 and 2386.....	4950	....	....	3850	3850	3850
P-1, 3, 5	{2403, 2411 to 2413, 2416 to 2418, 2423, 2425 to 2435, 2437 to 2452, 2459 and 2460}	4850	....	....	3800	3800	....
P-1	2400, 2403 to 2407 and 2415.....	4850	....	....	3800	3800	....
P-4	2401, 2402, 2409, 2410, 2414, 2419, 2420, 2422, 2424 and 2436	5350	....	....	4150	4150	....
P-6	2453, 2454 and 2458.....	6100	....	....	4750	4750	....
P-7	2476 and 2477.....	6500	....	....	5050	5050	....
P-8, 10	2461 to 2474, 2478 to 2483.....	6750	....	....	....	5250	....
P-8, 10	2475, 2484 to 2491.....	6750	....	....	....	5250	....
P-11	3100 to 3109.....	5300	....	....	4100	4100	....
P-12	3120 to 3129.....	7000	....	....	....	5350	....
C-5, 8, 9, 10, 26 to 29	2513 to 2599, 2624 to 2860, 3440 to 3469.....	6650	700	1250	5200	5200	....
C-15, 32	2500, 2505 to 2507.....	4250	450	800	3300	3300	....
C-17	2510 and 2511.....	5200	600	1000	4050	4050	....
C-18	3400 to 3409.....	6050	....	....	....	....	....
C-19	3410 to 3426.....	6300	....	....	....	....	....
TW-1	2900 to 2913.....	5050	510	950	3950	3950	3950
TW-2, 3	2932 to 2952.....	4050	400	750	3150	3150	3150
TW-4, 6	2926 to 2931 and 2957.....	3850	350	700	3000	3000	3000
TW-8	2914 to 2923.....	5650	600	1050	4450	4450	....
A-3	3029.....	3800	....	....	....	....	....
A-3	3025, 3036, 3052 and 3057.....	3800	....	....	....	....	....
A-6	3000 to 3003.....	4750	....	....	....	....	....
Mk-2, 4	3201 to 3240.....	7650	....	....	....	....	....
Mk-5, 6	3241 to 3277.....	8400	....	....	....	....	....
Mk-7, 8, 9	3300 to 3324.....	9200	....	....	....	....	....
Mk-10	3295.....	7100	....	....	....	....	....
Mk-11	3297 and 3298.....	6800	....	....	....	....	....
F-1	3600 to 3652.....	9650	....	....	....	....	....
F-3	3653 to 3667.....	11000	....	....	....	....	....
F-4, 5	3668 to 3769.....	11000	....	....	....	....	....
AM-2	3900 to 3911.....	10900	....	....	....	....	....
MM-3	3930 and 3931.....	12700	....	....	....	....	....
AC-1, 2, 3	4000 to 4048.....	13300	....	....	....	....	....
AC-4, 5	4100 to 4125.....	17300	....	....	....	....	....
AC-6 to 12	3800 to 3811, 4126 to 4294.....	18500	....	....	....	....	....
Mt-1, 3, 4, 5	4300 to 4376.....	8950	....	....	....	....	....
Mt-2	4385 to 4390.....	9750	....	....	....	....	....
GS-1, 2	4400 to 4415.....	9550	....	....	....	....	....
GS-3, 4, 5, 6	4416 to 4469.....	9900	....	....	....	....	....
SP-1, 2, 3	5000 to 5048.....	12950	....	....	....	....	....
Allowance for Empty and Underloaded Cars	Less than 45 Ms.....	6	3	3			
	45 Ms to 55 Ms.....	3	3	3			
	More than 55 Ms.....	0	0	0			

(A) Eng 2371 not permitted to operate on these branches.

ENGINES FOR WHICH NO RATING IS SHOWN IN THE RATING OF ENGINES TABLE WILL NOT BE PERMITTED TO OPERATE IN THAT TERRITORY UNLESS AUTHORIZED BY SUPERINTENDENT.

**RULE 7 (B).** Yardmen must use green flag by day and green light by night in giving proceed signals for movement of trains at Gerber

**RULE 14 (d).** As specified below, — — — o, will be indication that flagman may return from west as prescribed by Rule 99. Tehama on Davis line.

**RULE 14 (e).** As specified below, — — — — — will be indication that flagman may return from east as prescribed by Rule 99.

Davis on Gerber line.  
Woodland on Knights Landing Branch.  
Harrington on Colusa Branch.

**RULE 83 (A).** At the following stations, only the trains indicated will register:  
Harrington, Orland, Willows—Trains originating or terminating.

**RULE 83 (B).** At open train-order offices, trains may register by ticket as follows:  
Davis—All trains to or from West Valley Subdivision.

**RULE 93.** Yard limits in which the provisions of Rule 93 will apply are established at the following stations:

MP West		MP East
74.20	Davis (Dixon line).....	77.34
	" (Tehama line).....	76.94
83.66	Woodland.....	85.82
	" (Knights Ldg. Br.).....	86.31
147.96	Willows.....	150.84
	" (Fruto Br.).....	151.82
164.48	Orland.....	167.72
177.62	" (Colusa Br.).....	.....
211.92	Gerber.....	216.08

Yard limit boards located to left of track:  
Eastward approaching Gerber.

Gerber. Westward freight trains and light engines must not pass east switch of yard track No. 1 unless proceed signal received from yardman.

Eastward trains except first-class must not pass crossover just west of Signal 2136 unless proceed signal received from yardman.

**RULE 98.** Railroad crossings at grade and drawbridges not interlocked:

Drawbridge 94.14, Knights Landing Br. Over Sacramento River —Stop within 200 feet of drawbridge.

**RULE 103 (A).** Trains and engines must stop and be preceded by flagman before crossing highway at:  
Woodland, Main St. crossing on house track.

**RULE 104.** The normal position of rigid switches at junctions:  
Woodland.....Knights Landing Br., for movement from siding through crossover to Tehama line.

Harrington.....Colusa Br., for siding.  
Willows.....Fruto Br., for Gerber line.  
Wyo.....Colusa Br., for Tehama line.  
Marchant.....Karnak line, for Knights Landing Br.

**RULE 105.** Following tracks are designated for use as sidings:  
Wyo—Second track of the two tracks paralleling main track, is siding.

**RULE 505. AUTOMATIC BLOCK SYSTEM**

Gerber. Yellow aspect in diverging route unit on Signal 2134 governs movement through crossover 1300 feet beyond signal.

**RULE 510.** The following block signals, equipped with triangular number plate displaying the letter "P", have included in their control limits some special protective device.

Eastward	DAVIS-GERBER	Westward
P-1178	High water detector, bridge 118.88.....	P-1201
P-1354	High water detector, bridge 137.44.....	P-1381
P-1756	High water detector, bridge 176.21.....	P-1781

**RULE 516.** Overlap posts:

Westward Trains: Wyo—1000 feet west of east switch of siding.

**RULE 535. SPRING SWITCHES**

Spring switches equipped with facing point locks are located as follows, and speed indicated must not be exceeded while trailing through them:

Location	Normal Position	MPH
Gerber...East end siding.....	Main track.....	15

Spring switch east end siding Gerber equipped with electric switch lamp. If green light is not displayed, trains must stop and examine switch and it must be known that it is safe for passage of train before passing over it; and when trailing movement is to be made from siding, switch must be hand-thrown before and after the movement is made.

**RULE 605. INTERLOCKING**

Woodland. SNRy crossing.

Whistle signals:

Siding through crossover to or from Tehama line — o o o o.  
House track to or from Tehama line — — — o.

Hand signals as required by Rule 628 may be given from the tower instead of from the ground.

Towerman not on duty Sunday and holidays, nor between 5:00 p.m. and 8:00 a.m. on other days. Signals on SNRy will be placed at "stop" position and signals on SP will be in "clear" position for eastward and westward movements.

**REMOTE CONTROL INTERLOCKING**

Tehama-Gerber—Interlocking limits on main track extend from signal 398 feet west of Tehama junction switch on Davis line and signal 293 feet west of Tehama junction switch on Roseville line to signal 48 feet west of west switch No. 1 track Gerber yard. Interlocking limits on siding extend from west switch to dwarf semi-automatic signal 295 feet east of west switch Gerber siding.

Top unit of signal on Roseville line 293 feet west of Tehama junction switch governs movement on main track. Lower unit governs movement to Gerber siding.

Top unit of semi-automatic signal at west end siding Gerber governs movement to Davis line; lower unit governs movement to Roseville line.

East switch of crossover between main track and Gerber siding is equipped with an electric lock. Permission to move from siding to main track through this crossover must be obtained from the operator. The electric lock must first be operated in accordance with instructions posted inside of the lock box door, after which manually line the east switch and then line the west switch.

Trains using crossover from main track to siding must first manually line west crossover switch, then open and operate electric lock, after which manually line the switch.

Trains authorized to enter Gerber siding through crossover must have engine east of interlocking signal before electric lock can be operated.



SPECIAL INSTRUCTIONS—WEST VALLEY SUBDIVISION

**RULE 705. LETTER TYPE INDICATORS**

Indicators located as follows:

Illuminated Letter	On Signal	Approaching	Authorizes and requires movement as follows:
M.....	7 ft. mast.....	Gerber.....	East end siding Enter main track and proceed to crossover just west of Signal 2136 to enter yard.
M.....	2134.....	Gerber.....	If passenger train—proceed to train-order office. If freight train, proceed to crossover to enter yard.

These indicators do not apply to trains entering yard at west switch No. 1 track.

If "M" is not illuminated train must stop and call operator for instructions.

**GENERAL REGULATIONS**

**RULE 862.** Trainmen arriving Gerber on first-class trains and extra passenger trains will remain on duty and protect their train until outgoing brakemen have inspected train and assumed their proper positions, at which time incoming brakemen will be relieved. If train is to be delayed beyond schedule time, outgoing conductor will have his rear brakeman relieve flagman of incoming crew as soon as inspection has been completed.

**RULE 827. TRAIN INSPECTION**

Freight trains may make continuous run of not more than fifty miles without a stop for inspection if in the judgment of conductor and engineer no stops are necessary.

**LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT STANDARD CLEARANCE ON MAIN TRACK AND SIDINGS**

MP	Location	Description
165.4	Orland.....	Water Tank Spout.....Overhead and Side
120.8	Grimes.....	Water Spout.....Side
145.9	Princeton.....	Water Spout.....Side

**MISCELLANEOUS**

1. Take water only in emergency at:  
Woodland, Maxwell, Robbins.  
Engines may take oil and water without cutting off from train at any point.

After taking water at water columns at Gerber, spout must be left cleared, and spout of eastward column pointing east, and spout of westward column pointing west.

**10. ENGINES LISTED MUST NOT OPERATE ON TRACKS SHOWN BELOW:**

Class of Engine	RESTRICTED TRACKS
F, AC, Mk, Mt, GS...	Merritt.....Warehouse track; Ellison spur.
"	Woodland.....Swanston spur.
"	Dunnigan.....Standard Oil spur.
"	Arbuckle.....Warehouse track.
"	Riz.....Warehouse spur.
"	Willows.....Union Oil spur; Union Ice spur.
"	Orland.....Standard Oil spur; Union Oil spur.
"	Corning.....Heinz spur.
AC-4-5-6-7-8-10-11-12.	Tehama.....House track.
All engines.....	Sugarfield.....Must not operate on track 5 beyond 50 feet west of west end of beet dump pit.
"	Wyo.....Stoney Creek gravel pit—Engines must not go beyond gravel bin more than three car lengths. Any class engine may use either leg of wye at Wyo and on Colusa Branch between Wyo and east switch Cory.
"	Tehama.....Spur east of Slough bridge at 5th St. —Engines must not go beyond 250 feet from fouling point.

Underground gasoline tanks installed opposite house track at a point 300 feet west of station Colusa. Engines must not be stopped in front of unloading spot when oil or gasoline cars are being unloaded.

**SPEED RESTRICTIONS FOR OTHER THAN MAIN TRACKS**

With Caution Not Exceeding MPH

Through sidings, yard and other side tracks, crossovers, turnouts and slip-switches except.....	15
On Swanston Feed Yard spur Woodland.....	10
On gravel pit tracks—Cory.....	10
Through any siding, crossover, turnout, or slip-switch with engine backing except.....	10
F-class engines backing through any switch.....	6

**SPEED RESTRICTIONS:** Maximum speed of Passenger trains must not exceed 50 MPH and Freight and Mixed trains 35 MPH except as otherwise provided for herein, or by bulletin, train order or fixed signal.

Maximum speed of any train with an engine not shown in Speed Restriction table, 35 MPH, and is further restricted to maximum speed shown for Freight and Mixed trains if less than 35 MPH.

Page No.	TERRITORY	WITH TRAIN — ENGINE RUNNING FORWARD								LIGHT ENGINE RUNNING FORWARD				ENGINE BACKING WITH TRAIN OR LIGHT			
		PASSENGER								FREIGHT AND MIXED	E P A Mt GS	T-26-32-37-40 F (if CCB*)	M T-1-8-9-23-28-31-36-57-58 C-2-4-5-8-9-10-18-19-26-27-28-29 Mk-5-6-7-8-9 F (if not CCB*) SP	C-15-17-32 TW Mk-2-4-10-11 AC AM-2 MM-3	E A T P C TW	Mk F Mt GS SP	M AC AM-2 MM-3 Gas-elec. cars
		P-8 (if CCB*)	E A P-1-3-4-5-6-11 P-7-10-12 GS Mt	T -26 -32 -37 -40	AC-4-5-7-8-9-10-11-12 AC-6 (if CCB*)	T-1-8-9-23-28-31-36-57-58 Mk-5-6-7-8-9 F (if CCB*) SP Gas-elec. cars	M AM-2	C-2-4-5-8-9-10-18-19-26-27-28-29 Mk-2-4, TW F (if not CCB*) AC-1-2-3-6 (if not CCB*)	C-15-17-32 Mk-10-11 MM-3								
8	Davis and Gerber, except.....	70	70	60	55	50	45	40	35	40	45	40	35	30	30	25	
	Davis Passenger Station-MP 76.69.....	40	40	40	40	40	40	40	35	30	40	40	35	30	20	20	
	MP 81.8-MP 82.2.....	40	40	40	40	40	40	40	35	40	40	40	35	30	30	25	
	Over Main and Court Sts., Woodland, MP 85.0-MP 85.1.....	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
	*Cache Creek bridge 89.26.....	70*	70	60	55*	50*	45	40*	35	40*	45*	40*	35*	30*	30*	25	
	Through Willows MP 149.5-MP 150.0.....	40	40	40	40	40	40	40	35	40	40	40	35	30	30	25	
	MP 150.0-MP 154.0.....	60	60	60	55	50	45	40	35	40	45	40	35	30	30	25	
	Over Walker St., Orland, MP 165.5.....	35	35	35	35	35	35	35	25	25	35	35	35	30	30	25	
	Over Stoney Creek bridge 166.79.....	50	50	50	50	50	45	40	35	40	45	40	35	30	30	25	
	Through Corning MP 178.0-MP 178.9.....	40	40	40	40	40	40	40	35	40	40	40	35	30	30	25	
	Over Thomes Creek bridge 182.01.....	50	50	50	50	50	45	40	35	40	45	40	35	30	30	25	
	MP 185.9-MP 213.8 Gerber.....	35	35	35	35	35	35	35	35	35	35	35	35	30	30	25	

\*AC-GS-F class engines are restricted to 25 MPH over structure.

Page No.	TERRITORY	ENGINE RUNNING FORWARD WITH TRAIN OR LIGHT		ENGINE BACKING WITH TRAIN OR LIGHT
		Passenger	Freight	
8	Willows-MP 155.8.....	15	15	15
	MP 155.8-Fruto.....	12	12	12
9	Harrington-Wyo (via Colusa).....	25	25	20
10	Woodland-Grace.....	25	25	20
	Grace-Josephine.....	20	20	15
	Marchant-Karnak.....	20	20	15

## WEST VALLEY SUBDIVISION

## RATING OF ENGINES—In Ms of 1000 lbs. Back of Tender.

NOMINAL CLASS	ENGINE NUMBERS	Davis and Gerber	Woodland and Josephine Marchant and Karnak	Willows and Fruto	Harrington and Wyo via Colusa
DES-1, 2, 3, 4, 5, 6, 7	1000 to 1022.....	1950	....	....	....
DES-100 to 107	1300 to 1395.....	3100	....	....	....
E-23	1500 and 1502.....	2600	2600	2600	2600
M-4	1617 to 1713.....	3400	3400	3400	3400
M-6, 8	1721 to 1803, 1823 to 1825.....	4150	4150	....	4150
M-9, 11	1804 to 1822, 1826 to 1831 and 1836.....	4400	4400	....	4400
M-11	1832 to 1835.....	4400	4400	....	4400
T-1	2242 to 2271.....	3100	3100	3100	3100
T-8, 9	2161, 2174 and 2178.....	2100	2100	2100	2100
T-23	2301 to 2310.....	4400	4400	....	4400
T-26	2283 to 2299.....	3900	3900	....	3900
T-28, 31	2311 to 2362.....	4800	4800	....	....
T-32, 40	2363 to 2384.....	5050	5050 (A)	....	....
T-36	2103.....	3150	3150	3150	3150
T-37	2105 and 2106.....	4250	4250	....	4250
T-57, 58	2385 and 2386.....	3850	3850	....	3850
P-1, 3, 5	{2408, 2411 to 2413, 2416 to 2418, 2423, 2425 to 2435, 2437 to 2452, 2459 and 2460}	3800	....	....	....
P-1	2400, 2403 to 2407 and 2415.....	3800	....	....	....
P-4	2401, 2402, 2409, 2410, 2414, 2419, 2420, 2422, 2424 and 2436	4150	....	....	....
P-6	2453, 2454 and 2458.....	4750	....	....	....
P-7	2476 and 2477.....	5050	....	....	....
P-8, 10	2461 to 2474, 2478 to 2483.....	5250	....	....	....
P-8, 10	2475, 2484 to 2491.....	5250	....	....	....
P-11	3100 to 3109.....	4100	....	....	....
P-12	3120 to 3129.....	5350	....	....	....
C-5, 8, 9, 10, 26 to 29	2513 to 2599, 2624 to 2860, 3440 to 3469.....	5200	5200	....	....
C-15, 32	2500, 2505 to 2507.....	3300	3300	....	3300
C-17	2510 and 2511.....	4050	4050	....	4050
C-18	3400 to 3409.....	4750	....	....	....
C-19	3410 to 3426.....	4950	....	....	....
TW-1	2900 to 2913.....	3950	3950	....	3950
TW-2, 3	2932 to 2952.....	3150	3150	....	3150
TW-4, 6	2926 to 2931 and 2957.....	3000	3000	....	3000
TW-8	2914 to 2923.....	4450	4450	....	....
A-3	3029.....	2950	2950	....	....
A-3	3025, 3036, 3052 and 3057.....	2950	2950	....	....
A-6	3000 to 3003.....	3700	3700	....	....
Mk-2, 4	3201 to 3240.....	5950	....	....	....
Mk-5, 6	3241 to 3277.....	6600	....	....	....
Mk-7, 8, 9	3300 to 3324.....	7200	....	....	....
Mk-10	3295.....	5550	....	....	....
Mk-11	3297 and 3298.....	5300	....	....	....
F-1	3600 to 3652.....	7550	....	....	....
F-3	3653 to 3667.....	8600	....	....	....
F-4, 5	3668 to 3769.....	8600	....	....	....
AM-2	3900 to 3911.....	8500	....	....	....
MM-3	3930 and 3931.....	10050	....	....	....
AC-1, 2, 3	4000 to 4048.....	10400	....	....	....
AC-4, 5	4100 to 4125.....	13550	....	....	....
AC-6 to 12	3800 to 3811, 4126 to 4294.....	14500	....	....	....
Mt-1, 3, 4, 5	4300 to 4376.....	6950	....	....	....
Mt-2	4385 to 4390.....	7600	....	....	....
GS-1, 2	4400 to 4415.....	7450	....	....	....
GS-3, 4, 5, 6	4416 to 4469.....	7700	....	....	....
SP-1, 2, 3	5000 to 5048.....	10150	....	....	....
Allowance for Empty and Underloaded Cars	{Less than 45 Ms..... 45 Ms to 55 Ms..... More than 55 Ms.....}	6 3 0			

(A) Eng. 2371 not permitted to operate on these branches.

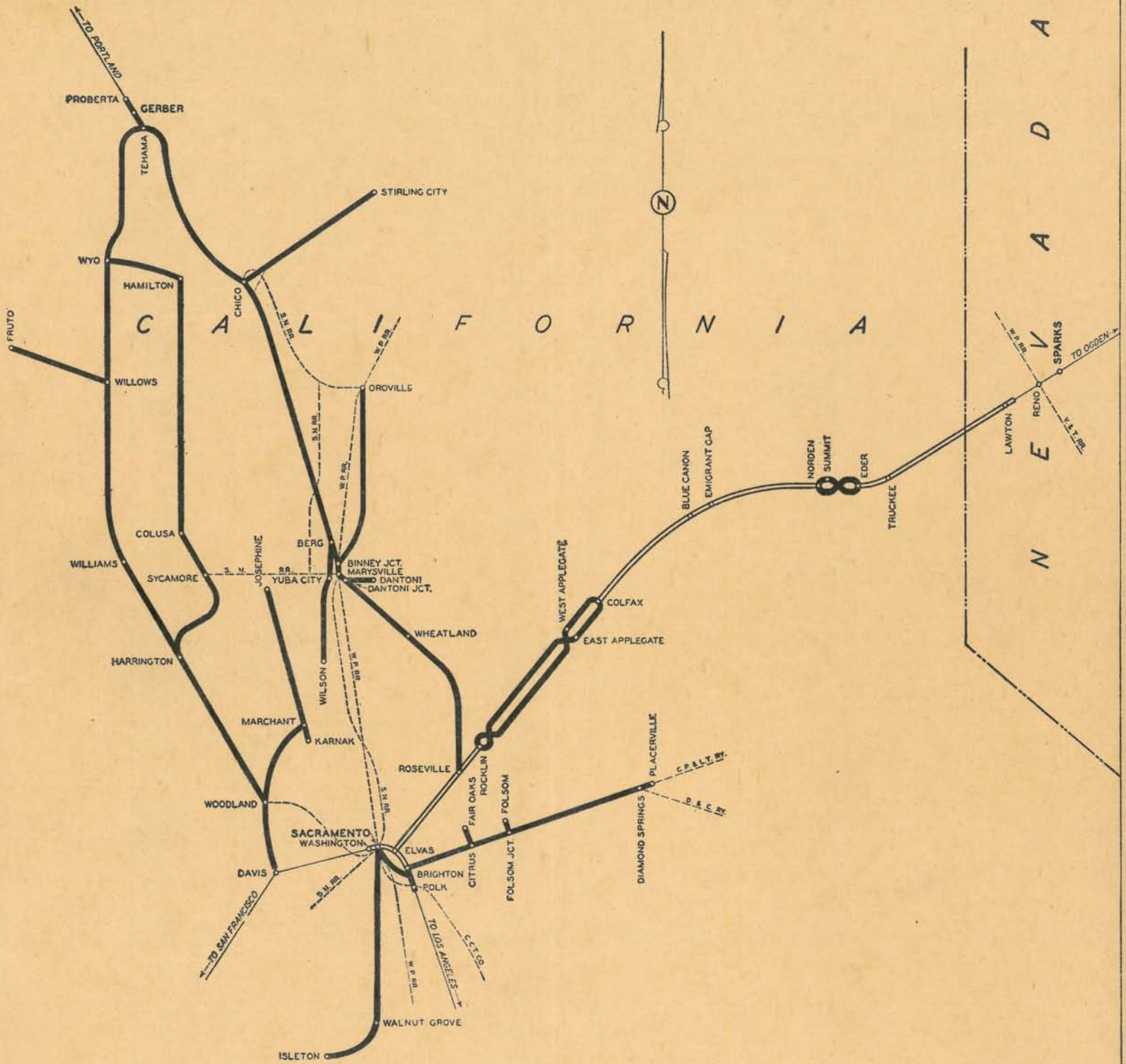
ENGINES FOR WHICH NO RATING IS SHOWN IN THE RATING OF ENGINES TABLE WILL NOT BE PERMITTED TO OPERATE IN THAT TERRITORY UNLESS AUTHORIZED BY SUPERINTENDENT.

**MILEAGE**

Main Lines		First Track	Second Track
End Western Division to Sacramento	S. P. R. R.	.862	.862
Sacramento to Lawton	C. P. Ry.	147.754	149.291
At Elvas (West Wye)	C. P. Ry.	.308	.314
Polk to Elvas	C. P. Ry.	4.629	2.997
Davis to Tehama	S. P. R. R.	109.707	
Roseville (East Wye)	C. P. Ry.	.274	
Roseville (West Wye)	C. P. Ry.		.266
Roseville to Proberta	C. P. Ry.	109.231	
<b>TOTAL MAIN LINES</b>		<b>372.765</b>	<b>153.730</b>
Branches			
Colusa	S. P. R. R. Harrington to Wyo	71.655	
Dantoni	C. P. Ry. Dantoni Jet. to Dantoni	4.464	
Fair Oaks	S. P. R. R. Citrus to Fair Oaks	2.113	
Folsom	S. P. R. R. Folsom Jet. to Folsom	.995	
Fruto	S. P. R. R. Willows to Fruto	17.204	
Knights Landing	S. P. R. R. Woodland to west of Cunard	9.713	
	S. P. Co. West of Cunard to Josephine	22.155	
Oroville	C. P. Ry. Binney Jet. Init. Sw. to beg. S. P. R. R. Tr.	.044	
	S. P. R. R. Beginning S. P. R. R. Track to Oroville	25.267	
Placerville	C. P. Ry. Brighton to beginning S. P. R. R. Track	.070	
	S. P. R. R. Beginning S. P. R. R. Track to Placerville	54.920	
"R" Street	C. P. Ry. At Brighton (Link Track)	.323	
	S. P. R. R. Brighton to "Q" St., Sacramento	4.941	
Stirling City	C. P. Ry. Chico to Stirling City	31.181	
Karnak	S. P. Co. Marchant to Karnak	2.740	
	C. P. Ry. Sacramento to Front & "K" St.	.292	
Walnut Grove	S. P. R. R. "K" Street to "N" Street	.245	
	C. P. Ry. "N" Street to Isleton	32.937	
Yuba City	S. P. R. R. Berg to Wilson	14.683	
<b>TOTAL BRANCH LINE</b>		<b>205.951</b>	
<b>TOTAL SACRAMENTO DIVISION</b>			<b>822.446</b>

**SPEED TABLE**

TIME PER MILE	MILES PER HOUR
36"	100
37"	97.3
38"	94.7
39"	92.3
40"	90
41"	87.8
42"	85.7
43"	83.7
44"	81.8
45"	80
46"	78.3
47"	76.6
48"	75
49"	73.5
50"	72
51"	70.6
52"	69.2
53"	67.9
54"	66.6
55"	65.4
56"	64.2
57"	63.1
58"	62
59"	61
1'00"	60
1'01"	59
1'02"	58
1'03"	57.1
1'04"	56.2
1'05"	55.3
1'06"	54.5
1'07"	53.7
1'08"	52.9
1'09"	52.1
1'10"	51.4
1'11"	50.7
1'12"	50
1'13"	49.3
1'14"	48.6
1'15"	48
1'16"	47.3
1'17"	46.7
1'18"	46
1'19"	45.5
1'20"	45
1'25"	42.3
1'30"	40
1'35"	37.9
1'40"	36
1'45"	34.3
1'50"	32.7
1'55"	31.3
2'00"	30
2'15"	26.6
2'30"	24
2'45"	21.8
3'00"	20
3'30"	17.1
4'00"	15
5'00"	12
6'00"	10
7'00"	8.6
7'30"	8
8'00"	7.5
10'00"	6



SACRAMENTO DIVISION